

PHOENICS Publications 2000-1981

2000

Spalding, D Brian

Turbulence Models for CFD in the 21st Century.

(2000) Proceedings Applied Computational Fluid Dynamics, Beijing, China, pp 46-51.

Gruen, G.-U., Buchholz, A., Mortensen, D.

3-D modeling of fluid flow and heat transfer during the DC casting process - Influence of flow modeling approach

(2000) *Light Metals: Proceedings of Sessions, TMS Annual Meeting (Warrendale, Pennsylvania)*, pp. 573-578.

Reichrath, S., Ferioli, F., Davies, T.W.

A simple computational fluid dynamics (CFD) model of a tomato glasshouse

(2000) *Acta Horticulturae*, 534, pp. 197-204.

Jalili, V., Patel, M.K., Bailey, C.

Application of CFD in designing spacers: A novel approach

(2000) *American Society of Mechanical Engineers, Bioengineering Division (Publication) BED*, 48, pp. 235-236.

Badran, O.O., Holdo, A.E., Al-Far, S., Nilsen, H.

CFD studies on ballast water separators

(2000) *American Society of Mechanical Engineers, Pressure Vessels and Piping Division (Publication) PVP*, 431, pp. 17-20.

Hanson, R., Patel, M.K.

Development of a model to predict the life of pneumatic conveyor bends subject to erosive wear

(2000) *American Society of Mechanical Engineers, Fluids Engineering Division (Publication) FED*, 253, pp. 967-975.

Schmidtke, O., Hapke, J.

Mass and heat transfer in connection with the storage of hydrogen in metal hydrides

(2000) *Computational Studies*, 3, pp. 53-62.

Wei, Z.-J., Zhang, P.

Numerical simulation of air flow field in a cyclone dust separator

(2000) *Beijing Ligong Daxue Xuebao/Transaction of Beijing Institute of Technology*, 20 (5), pp. 561-564.

Keating, A., Nešić, S.

Particle tracking and erosion prediction in three-dimensional bends

(2000) *American Society of Mechanical Engineers, Fluids Engineering Division (Publication) FED*, 253, pp. 993-999.

Shilton, A.

Potential application of computational fluid dynamics to pond design

(2000) *Water Science and Technology*, 42 (10-11), pp. 327-334.

Moureh, J., Derens, E.

Numerical modelling of the temperature increase in frozen food packaged in pallets in the distribution chain

(2000) *International Journal of Refrigeration*, 23 (7), pp. 540-552.

Papakonstantinou, K.A., Kiranoudis, C.T., Markatos, N.C.

Numerical simulation of volatile organic compounds evaporation in closed spaces
(2000) *Drying Technology*, 18 (10), pp. 2203-2216.

Narabayashi, T., Mori, M., Nakamaru, M., Ohmori, S.

Study on two-phase flow dynamics in steam injectors: II. High-pressure tests using scale-models
(2000) *Nuclear Engineering and Design*, 200 (1), pp. 261-271.

Solhed, H., Alexis, J., Sjöström, U., Yuan, S.D., Jonsson, L.

Application of mathematical modelling at MEFOS to improve metallurgical processes
(2000) *Scandinavian Journal of Metallurgy*, 29 (3), pp. 127-138.

Ma, F., Wen, G., Li, G.

Numerical simulation on fluid flow in mould for slab continuous casting
(2000) *Jinshu Xuebao/Acta Metallurgica Sinica*, 36 (4), pp. 399-402.

Otte, S., Schmidt, W.

Process equipment innovation in economical working small plants for thermal waste treatment [Wirtschaftliche Thermische Abfallbehandlung in Kleinanlagen mit innovativen Verfahrenselementen]
(2000) *Chemische Technik (Leipzig)*, 52 (2), pp. 61-65.

Hu, J., Rivin, B., Sher, E.

The effect of an electric field on the shape of co-flowing and candle-type methane-air flames
(2000) *Experimental Thermal and Fluid Science*, 21 (1-3), pp. 124-133.

Chuang, S.-H., Nieh, T.-J.

Numerical simulation and analysis of three-dimensional turbulent impinging square twin-jet flow field with no-crossflow
(2000) *International Journal for Numerical Methods in Fluids*, 33 (4), pp. 475-498.

Kostikov, A.O.

Use of the PHOENICS program complex of solution of heat mass transfer problems for the determination of a heat emission coefficient
(2000) *Engineering Simulation*, 17 (2), pp. 271-280.

Marsalek, P.M., Watt, W.E., Marsalek, J., Anderson, B.C.

Winter flow dynamics of an on-stream stormwater management pond
(2000) *Water Quality Research Journal of Canada*, 35 (3), pp. 505-523.

Yongxiang Yang, Markus A Reuter & Derek TM Hartman

CFD Simulation of Residence Time Distribution of a Rotary Kiln Waste Incinerator
(2000) Department of Applied Earth Science, Delft University

Jonas Alexis, Par Jonsson & Lage Jonsson

Heating and Electromagnetic Stirring in a Ladle Furnace – A Simulation Model
(2000) *ISIJ International*, Vol.40 No.11 pp1098-1104

1999

Beale S.B. and Spalding, D Brian

A Numerical Study of Unsteady Fluid Flow in In-Line and Staggered Tube Banks.
(1999) *Journal of Fluid and Structures*, (1999) 13, pp 723-754.

Spalding, D Brian

MFM: the Economical Route to PDF's

(1999) The Isaac Newton Institute, Cambridge, UK, April 1999.

Spalding, D Brian

Computational Fluid Dynamics on the Internet.

(1999) EUROTEx Workshop on Internet and Web Based Computing, Dallas, Texas, USA, April 1999

Spalding, D Brian

Fluid-Structure Interaction and the 'Cut-Cell' Technique

(1999) NAFEMS Lectures, Kenilworth, UK, October 1999.

Chew, M.Y.L., Lim, S.H.

A computational fluid dynamic simulation study of a smoke extract system in an underground transit station

(1999) *Journal of Applied Fire Science*, 9 (3), pp. 251-273.

Choi, H.L., Song, J.I., An, H.K.

Better Housing for Effective Pig Production

(1999) *Asian-Australasian Journal of Animal Sciences*, 12 (8), pp. 1310-1315.

Mufuta M. B., J.-M.

Comparison of experimental values and numerical simulation on a set-up simulating the cross-section of a disc type transformer

(1999) *International Journal of Thermal Sciences*, 38 (5), pp. 424-435.

Um, Ki-Young, Han, Ki-Gwan, Lee, Jong-Moo, Kwon, Soon-Chang, Lee, Eun-Ah, Lee, Hwang-Jin, Noh, Min-Soo, Yoo, Tae-Kyung

Development of high power laser diode

(1999) *Pacific Rim Conference on Lasers and Electro-Optics, CLEO - Technical Digest*, 2, pp. 225-226.

Hu, J., Rivin, B., Sher, E.

Experimental and numerical study of the effect of an electric field on a Bunsen-type flame

(1999) *Israel Journal of Chemistry*, 39 (1), pp. 87-96.

Abdul Ghani, A.G., Farid, M.M., Chen, X.D., Richards, P.

Investigation of deactivation of bacteria in a canned liquid food during sterilization using computational fluid dynamics (CFD)

(1999) *Journal of Food Engineering*, 42 (4), pp. 207-214.

Ghiaus, A.-G., Margaris, D.P., Papanikas, D.G.

Modelling and experimentation in drying of thermolabile products

(1999) *Physics and Modern Topics in Mechanical and Electrical Engineering*, pp. 159-164.

Jalili, V., Patel, M.K., Bailey, C.

Numerical modelling of inhaler spacers: A novel study

(1999) *Proceedings of the 1999 3rd ASME/JSME Joint Fluids Engineering Conference, FEDSM'99, San Francisco, California, USA, 18-23 July 1999 (CD-ROM)*, p. 1.

Wolf, H., Röber, J., Riedel, S., Streiter, R., Gessner, T.

Process and equipment simulation of copper chemical vapor deposition using Cu(hfac)vtms

(1999) *Microelectronic Engineering*, 45 (1), pp. 15-27.

Liu, X., Zhuo, Z., Huang, Y.

Study on a centrifugal superfine air classifier - flow-fields in the cavity of classifier
(1999) *Huaxue Gongcheng/Chemical Engineering*, 27 (6), pp. 35-38.

Yan, J.D., Fang, M.T.C., Hall, W.

The development of PC based CAD tools for auto-expansion circuit breaker design
(1999) *IEEE Transactions on Power Delivery*, 14 (1), pp. 176-181.

NguyenLe, Q., Ishii, M.

Theoretical and numerical investigation of turbulent steam jets in BWR steam blowdown
(1999) *American Society of Mechanical Engineers, Pressure Vessels and Piping Division (Publication) PVP*, 396, pp. 41-50.

Medved, Saso, Novak, Peter

Thermal insulation, shading and ventilation of transparent building envelope with a double cavity and siphon
(1999) *Strojarstvo*, 41 (1), pp. 19-26.

Nguyenle, Q., Ishii, M.

Three dimensional analysis of turbulent steam jets in enclosed structures: A CFD approach
(1999) *American Society of Mechanical Engineers, Pressure Vessels and Piping Division (Publication) PVP*, 397 II, pp. 81-88.

Dinu, C.A., Beasley, D.E.

Transport processes for a row of confined jets impinging on a moving surface
(1999) *American Society of Mechanical Engineers, Heat Transfer Division, (Publication) HTD*, 364-3, pp. 273-281.

Karama, A.B., Onyejekwe, O.O., Brouckaert, C.J., Buckley, C.A.

The use of computational fluid dynamics (CFD). Technique for evaluating the efficiency of an activated sludge reactor
(1999) *Water Science and Technology*, 39 (10-11), pp. 329-332.

Otto, T., Wolf, H., Streiter, R., Dehoff, A., Wandel, K., Gessner, T.

Process and equipment simulation of dry silicon etching in the absence of ion bombardment
(1999) *Microelectronic Engineering*, 45 (4), pp. 377-391.

Abdul Ghani, A.G., Farid, M.M., Chen, X.D., Richards, P.

Numerical simulation of natural convection heating of canned food by computational fluid dynamics
(1999) *Journal of Food Engineering*, 41 (1), pp. 55-64.

Halupovich, Y., Natan, B., Rom, J.

Numerical solution of the turbulent supersonic flow over a backward facing step
(1999) *Fluid Dynamics Research*, 24 (5), pp. 251-273.

Jiang, Peixue, Pan, Yi, Ren, Zepei

Natural convection heat transfer of water at super-critical pressures in a horizontal annulus
(1999) *Qinghua Daxue Xuebao/Journal of Tsinghua University*, 39 (4), pp. 108-112.

De Cock, W., Blom, P., Vaes, G., Berlamont, J.

The feasibility of flocculation in a storage sedimentation basin
(1999) *Water Science and Technology*, 39 (2), pp. 75-83.

Schaer, E., Guichardon, P., Falk, L., Plasari, E.

Determination of local energy dissipation rates in impinging jets by a chemical reaction method
(1999) *Chemical Engineering Journal*, 72 (2), pp. 125-138.

Sipavichius, Ch., Shlezhas, R., Vaitekunas, P.

Investigation of gas stream outflow from conical nozzles in process of laser cutting
(1999) *Proceedings of SPIE - The International Society for Optical Engineering*, 3688, pp. 144-151.

Poscher, S., Lehnert, W., Ryssel, H.

Simulation of a coating protection for an in situ ellipsometer in a CVD furnace
(1999) *European Solid-State Device Research Conference*, 13-15 Sept. 1999, art. no. 1505593, pp. 676-679.

Yan, J.D., Fang, M.T.C.

Visualization of arcing process in an auto-expansion circuit breaker
(1999) *IEEE Transactions on Plasma Science*, 27 (1), pp. 40-41.

1998

Massoud Goodarzi, Roland Choo, Tomio Takasu & James M Toguri

The Effect of the Cathode tip angle on the gas tungsten arc welding arc and weld pool: II. The mathematical model for the weld pool

(1998) *J Phys. D: Appl. Phys.* 31 569-583 Printed in the UK

Spalding, D Brian

Fluid-Structure Interaction in the Presence of Heat Transfer and Chemical Reaction.

(1998) *Proc Joint ASME/JSME Meeting Computational Technologies for Fluid/Thermal/ Structural/Chemical Systems with Industrial Applications*, PVP-Vol 377-1. Vol 1. ASME 1998, ISBN 0-7918-1873-X, pp 1-32

Spalding, D Brian

CAD to SFT, with Aeronautical Applications

(1998) *Proceedings 38th Israel Annual Conference on Aerospace Sciences*, pp s-7-1 - s7-32, Tel Aviv, Israel

Spalding, D Brian

The Simulation of Smoke Generation in a 3-D Combustor, by Means of the Multi-Fluid Model of Turbulent Chemical Reaction.

(1998) *Proceedings IMechE Seminar on Turbulent Combustion of Gases and Liquids*, London, England

Holdo A E, Munday G, Spalding, D Brian

The Dangers of Grating Floors Dispersion and Explosion

(1998) *Proceedings Hazards XIV Symposium: Cost Effective Safety*, UMIST, Manchester UK, pp 345-358.

Beal S B, Spalding, D Brian

Numerical Study of Fluid Flow and Heat Transfer in Tube Banks with Stream-Wise Periodic Boundary Conditions.

(1998) *Transactions of the CSME*, December 1998, vol 22, no 4A, pp 397-416.

Richards, P.J., Mallinson, G.D.

Computational modelling and flow visualisation of wind flow over Downtown Auckland

(1998) *Proceedings of the 1998 Thirteenth Australasian Fluid Mechanics Conference, Melbourne, Australia, 13-18 December 1998*, pp. 417-420.

Phillips, D.G., Richards, P.J., Mallinson, G.D., Flay, R.G.J.
Computational modelling of diffuser designs for a diffuser augmented wind turbine
(1998) *Proceedings of the 1998 Thirteenth Australasian Fluid Mechanics Conference, Melbourne, Australia, 13-18 December 1998*, pp. 207-210.

Poscher, S., Theiler, T.
Coupled simulation of gas flow and heat transfer in an RTF-system with rotating wafer
(1998) *Materials Science in Semiconductor Processing*, 1 (3-4), pp. 201-205.

Gehring, R., Dutz, H., Bradtke, Ch., Goertz, St., Meyer, W., Plückthun, M., Reicherz, G., Thomas, A., Werth, H.
First use of an internal superconducting 'holding magnet' in an η -photoproduction experiment
(1998) *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, 418 (2-3), pp. 233-240.

Graovac, M., Dawson, F.P., Fila, M., Cormack, D.E.
Fluorescent lamp cold environment performance improvement
(1998) *Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)*, 3, pp. 2158-2163.

Medved, S., Novak, P.
Heat Transfer Through a Double Cavity with Siphon [Prehod toplote skozi dvojno rego s sifonom]
(1998) *Strojniski Vestnik/Journal of Mechanical Engineering*, 44 (3-4), pp. 71-83.

Bock, A., Anton, G., Beulertz, W., Bradtke, Chr., Dutz, H., Gehring, R., Goertz, S., Helbing, K., Hey, J., Meyer, W., Plückthun, M., Reicherz, G., Sözüer, L., Breuer, M., Didelez, J.P., Hoffmann-Rothe, P.
Measurement of the target asymmetry of η and π^0 photoproduction on the proton
(1998) *Physical Review Letters*, 81 (3), pp. 534-537.

Liang, Taofeng, Wang, Zhou, Yang, Xianyong
Numerical simulation for conjugated problems of conduction, convection and radiation in an annular space
(1998) *Qinghua Daxue Xuebao/Journal of Tsinghua University*, 38 (5), pp. 46-49.

Wang, R., Shen, Z.
Numerical simulation of swirling jet in flow field at bottomhole
(1998) *Journal of the University of Petroleum, China (Natural Science Edition)*, 22 (6), pp. 46-49.

Eichert, P., Imbert, M., Coddet, C.
Numerical Study of an ArH₂ Gas Mixture Flowing Inside and Outside a dc Plasma Torch
(1998) *Journal of Thermal Spray Technology*, 7 (4), pp. 505-512.

Noh, H.-K., Song, K.-S.
Temperature Distribution of a Low Temperature Heat Pipe with Multiple Heaters for Electronic Cooling
(1998) *ETRI Journal*, 20 (4), pp. 380-394.

Martynowicz, E.T.M.J., Kitano, K., Sakuraya, T.
The modeling of the combustion of interacting fuel droplet arrays
(1998) *American Society of Mechanical Engineers, Pressure Vessels and Piping Division (Publication) PVP*, 377 I, pp. 61-67.

Cheng, X., Zhang, Z., Fu, Z.
Turbulent flow in flow distributing equipment simulated by using PHOENICS
(1998) *Beijing Huagong Daxue Xuebao(Ziran Kexueban)/Journal of Beijing University of Chemical Technology*, 25 (1), pp. X3-19.

Medved, S., Novak, P.

Heat transfer through a double pane window with an insulation screen open at the top
(1998) *Energy and Buildings*, 28 (3), pp. 257-268.

Vaarno, J., Pitkälä, J., Ahokainen, T., Jokilaakso, A.

Modelling gas injection of a Peirce-Smith-converter
(1998) *Applied Mathematical Modelling*, 22 (11), pp. 907-920.

Hassan, A.A., Crowther, J.M.

Modelling of fluid flow and pollutant dispersion in a street canyon
(1998) *Environmental Monitoring and Assessment*, 52 (1-2), pp. 281-297.

Ahokainen, T., Jokilaakso, A.

Numerical Simulation of the Outokumpu Flash Smelting Furnace Reaction Shaft
(1998) *Canadian Metallurgical Quarterly*, 37 (3-4), pp. 275-283.

Proceedings of the 1996 Symposium on the Computational Fluid Dynamics and Heat/Mass Transfer Modeling (CFD and HMTM) in the Metallurgical Industry

(1998) *Canadian Metallurgical Quarterly*, 37 (3-4), pp. 167-342.

Kim, I.S., Basu, A.

A mathematical model of heat transfer and fluid flow in the gas metal arc welding process
(1998) *Journal of Materials Processing Technology*, 300 (3-4), pp. 17-24.

Laslandes, S., Sacré, C.

Transport of particles by a turbulent flow around an obstacle-a numerical and a wind tunnel approach
(1998) *Journal of Wind Engineering and Industrial Aerodynamics*, 74-76, pp. 577-587.

Meyer, W.

Eta-photo production from polarized protons at ELSA
(1998) *Nuclear Physics A*, 629 (1-2), pp. 286c-289c.

Yang, Y., Jokilaakso, A., Jarvi, J., Makela, P.

Gas flow and cooling in waste-heat boilers in the Outokumpu flash smelting process
(1998) *TMS Annual Meeting*, pp. 417-431.

Mathioulakis, E Karathanos, VT Belessiotis, VG

Simulation of air movement in a dryer by computational fluid dynamics: application for the drying of fruits.
(1998) Elsevier, *Journal of Food Engineering* 36, pp 183-200

Karayannis,A Panagopoulos,J Koras,A

Prediction of wind patterns in an urban environment
(1998) The PHOENICS *Journal of Computational Fluid Dynamics and its Applications*, Vol.11, No.1, pp 97-102.

Ghiaus,AG Margaris,DP Papanikas,DG

Improvement of dried products quality by flow manipulation techniques.
(1998) Proceedings of 2nd Trabzon International Energy and Environment Symposium, Trabzon, Turkey August.

Rew,HS

Numerical study on the unsteady interaction of two curved wall jets over a cylinder.
(1998) The PHOENICS *Journal of Computational Fluid Dynamics and its Applications*, Vol.11, No.1, pp 113-123.

Ouazzani,J Durand-Daubin,A Nyce,TA Rosenberger,F
Mixed convection in a horizontal rectangular channel-experimental and numerical velocity distributions.
(1998) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.11, No.2, pp 224-251.

Nabben,RHMG Duursma,RPJ Kamperman,AA Lagerberg,JL
Application of the EMBR-model and algebraic slip model to continuous casting of steel slabs in Hoogovens.
(1998) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.11, No.2, pp 136-147

Malin,MR
Turbulent pipe flow of Herschel-Bulkley fluids.
(1998) International Comm. Heat Mass Transfer, Vol.25, No.3, pp 321-330, Pergamon.

Katinas,V Vaitiekunas,P Zukauskas,A
Experimental and numerical study of three-dimensional turbulent flow over a rectangular prism.
(1998) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.11, No.2, pp 187-197.

Rubiao,LEG Guimaraes FM de Q Tornovsky,J
Temperature control in storage tanks.
(1998) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.11, No.2, pp 124-135.

I.S Kim & A Basu
A mathematical model of heat transfer and fluid flow in the gas metal arc welding process.
(1998) Journal of Materials Processing Technology 77 pp17-24

G.S.Djambazov,C.H.Lai, K.A.Pericleous
Efficient Computation of Aerodynamic Noise
Contemporary Mathematics, Volume 218, (1998), 500

1997

Spalding, D Brian
Simultaneous Fluid-Flow, Heat-Transfer and Solid-Stress Computations in a Single Computer Code.
(1997) Proc 4th Colloquium Process Simulation, Helsinki U, Espoo, Finland., ISBN 951-22-3573-0, pp 3-21

Spalding, D Brian
Boiling, Condensation, Multi-Phase Flow, Chemical Reaction & Turbulence; the Multi-Fluid Approach.
(1997) Proceedings of The Physics of Heat Transfer in Boiling and Condensation.
11th School-Seminar of young scientists and specialists, Moscow, pp 571-573.

Freeman D.J, Spalding, D Brian
Structural Forces Induced by Gas Explosions in Offshore Oil Platforms.
(1997) Institute of Marine Engineers, Application of Fluid Dynamics in The Safe Design of Topsides and Superstructures, pp17-26.

Spalding D Brian
Turbulent Reacting Flows and Combustion.
(1997) Proc CFD in Combustion Modelling at Centre for Computational Fluid Dynamics, Leeds University

Spalding D Brian
The Plane Turbulent Mixing Layer, Simulated by a Multi-Fluid Model of Turbulence.
(1997) Institute of Chemical Engineers, 5th UK National Conference on Heat Transfer

Freeman,DJ Spalding,DB

Structural forces induced by gas explosions in offshore oil platforms.

Proceedings, "Application of Fluid Dynamics in the Safe design of Toppers and Superstructures", The Institute of Marine Engineers, London, 26th February.

Bockel, S., Belmonte, T., Michel, H., Ablitzer, D.
3D modeling of a microwave post-discharge nitriding reactor
(1997) *Surface and Coatings Technology*, 97 (1-3), pp. 618-625.

Tucker, P.G.
CFD applied to electronic systems: A review
(1997) *IEEE Transactions on Components Packaging and Manufacturing Technology Part A*, 20 (4), pp. 518-529.

Huang, L.Y., Wen, J.X., Karayiannis, T.G., Matthews, R.D.
CFD modelling of heat transfer in condensing heat exchangers
(1997) *International Journal of Heat and Technology*, 15 (1), pp. 23-30.

Popovska, N., Gerhard, H., Wurm, D., Poscher, S., Emig, G., Singer, R.F.
Chemical vapor deposition of titanium nitride on carbon fibres as a protective layer in metal matrix composites
(1997) *Materials and Design*, 18 (4-6), pp. 239-242.

Harral, B.B., Boon, C.R.
Comparison of predicted and measured air flow patterns in a mechanically ventilated livestock building without animals
(1997) *Journal of Agricultural Engineering Research*, 66 (3), pp. 221-228.

Fraser, S.M., Abdel Razck, A.M., Abdullah, M.Z.
Computational and experimental investigations in a cyclone dust separator
(1997) *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*, 211 (4), pp. 247-257.

Hu, W., Lavers, J.D.
Coupled electro-thermal-flow model for very long electric arcs
(1997) *IEEE Transactions on Magnetics*, 33 (2 PART 2), pp. 1726-1729.

Domgin, J.F., Huilier, D., Burnage, H., Gardin, P.
Coupling of a Lagrangian model with a CFD code: Application to the numerical modelling of the turbulent dispersion of droplets in a turbulent pipe flow
(1997) *Journal of Hydraulic Research*, 35 (4), pp. 473-488.

Mann, R., Togatorop, A., Senior, P.R., Graham, P., Edwards, R.B.
Evaluating mixing in stirred reactors by 3-D visualization: Partial segregation for dual-feed semi-batch operation
(1997) *Chemical Engineering Research and Design*, 75 (8), pp. 755-762.

Sarkar, T., Sayer, P.G., Fraser, S.M.
Flow simulation past axisymmetric bodies using four different turbulence models
(1997) *Applied Mathematical Modelling*, 21 (12), pp. 783-792.

Hodson, J.S., Fletcher, J.P., Porter, K.E.
Fluid mechanical studies of structured distillation packings
(1997) *Institution of Chemical Engineers Symposium Series*, (142 pt 2), pp. 999-1007.

Freeman, David J.

Interfacing virtual reality, CFD and the Internet

(1997) *American Society of Mechanical Engineers (Paper)*, 8 p.

Lepski, D., Kusch, H.-G., Reitzenstein, W.

Modelling of diffusion controlled moving boundary processes during the laser remelting of ferritic nodular cast iron: Carbon diffusion in laser remelting

(1997) *Lasers in Engineering*, 5 (4), pp. 247-274.

Gango, P.

Numerical boron mixing studies for Loviisa nuclear power plant

(1997) *Nuclear Engineering and Design*, 177 (1-3), pp. 239-254.

Delaunay, D., Flori, J.P., Sacré, C.

Numerical modelling of gas dispersion from road tunnels in urban environments: Comparison with field experiment data

(1997) *International Journal of Environment and Pollution*, 8 (3-6), pp. 690-698.

Yan, Z., Tao, Z.

Numerical solution of heat transfer and fluid flow on nonstaggered grids

(1997) *Tuijin Jishu/Journal of Propulsion Technology*, 18 (5), pp. 69-77.

Yan, Zexiang, Tao, Zhi

Numerical solution of heat transfer and fluid flow on nonstaggered grids

(1997) *Tuijin Jishu/Journal of Propulsion Technology*, 18 (5), pp. 73-77.

Luoma, M., Härkönen, M., Lylykangas, R., Sohlo, J.

Optimization of the metallic three-way catalyst behavior

(1997) *SAE Technical Papers*, .

Proceedings of the 1997 E-MRS Spring Meeting

(1997) *Materials and Design*, 18 (4-6), pp. 203-414.

Steady-state waste combustion and air flow optimization in a field scale rotary kiln

(1997) *Environmental Engineering Science*, 14 (1), pp. 43-54.

Chow, W.K.

Studies on the stability of thermal stratified layer in a forced-ventilation fire using computational fluid dynamics

(1997) *Journal of Applied Fire Science*, 6 (1), pp. 15-25.

Chang, Y.P., Tsai, R.

Natural convection in a square enclosure with a cold source

(1997) *International Communications in Heat and Mass Transfer*, 24 (7), pp. 1019-1027.

Narabayashi, T., Mizumachi, W., Mori, M.

Study on two-phase flow dynamics in steam injectors

(1997) *Nuclear Engineering and Design*, 175 (1-2), pp. 147-156.

Ang, K.C., Mazumdar, J., Craig, I.Hamilton

Computational model for blood flow through highly curved arteries with asymmetric stenoses

(1997) *Australasian Physical and Engineering Sciences in Medicine*, 20 (3), pp. [d]152-163.

Buchanan, J.L., McKown, C.

Off-line sheet glass coating system

(1997) *Journal of Non-Crystalline Solids*, 218, pp. 179-184.

Mailutha, J.T., Honami, N., Murase, H., Inoti, I.K.

Knowledge engineering-based studies on solar energy utilization in Kenya: Part III

(1997) *AMA, Agricultural Mechanization in Asia, Africa and Latin America*, 28 (3), pp. 61-67.

Robertson, A.P., Hoxey, R.P., Richards, P.J., Ferguson, W.A.

Full-scale measurements and computational predictions of wind loads on free-standing walls

(1997) *Journal of Wind Engineering and Industrial Aerodynamics*, 67-68, pp. 639-646.

Kleinig, A.R., Middleberg, A.P.J.

Numerical and experimental study of a homogenizer impinging jet

(1997) *AIChE Journal*, 43 (4), pp. 1100-1107.

Papamichael, H., Pellon, C., Miaoulis, I.N. Tieu, A.K., Kim, I.S.

Simulation of the continuous casting process by a mathematical model

(1997) *International Journal of Mechanical Sciences*, 39 (2), pp. 185-192.

Domgin, Jean-Francois, Gardin, Pascal, Huilier, Daniel G.F., Burnage, Henri

Application of an Eulerian-Lagrangian model to the turbulent dispersion of particles in turbulent pipe flows

(1997) *American Society of Mechanical Engineers, Fluids Engineering Division (Publication) FED*, 17, pp. 7pp.

Hadjerioua, Boualem, Lindquist, Katherine F., Proctor, William D., Killen, Christopher R.

Evaluation of hydro projects operational changes on Colbert Fossil Plant water intake temperature

(1997) *Proceedings of the International Conference on Hydropower - Waterpower*, 3, pp. 1858-1867.

Freeman, D.J.

Interfacing virtual reality, CFD and the internet

(1997) *Proceedings of the ASME Turbo Expo*, .

Ang, K.C., Mazumdar, J.N.

Mathematical modelling of three-dimensional flow through an asymmetric arterial stenosis

(1997) *Mathematical and Computer Modelling*, 25 (1), pp. 19-29.

Jiang, Yong, Yeo, Joon Hock, Liu, Chang Yu

Numerical and experimental study on fluid flow through bileaflet valves in a rigid 2-D aortic model

(1997) *American Society of Mechanical Engineers, Fluids Engineering Division (Publication) FED*, 21, pp. 9pp.

Zamora, B Hernandez, j

Influence of variables property effects on natural convection flows in asymmetrically-heated vertical channels.

(1997) *International Comm. Heat Mass Transfer*, Vol.2 No, 8, pp1153-1162

Petit,E

Numerical modelling of the water model of a tundish.

(1997) *Proceedings, 7th International PHOENICS User Conference*, Seville, may. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.11, No.1, pp65-80 1998

Radosavljevic,D Fitzsimmons,P

CFD: case studies within the marine industry.

(1997) *Proceedings, 7th International User Conference*, Seville, May. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No.2, pp 227-249.

Park,MS Park,YW Lee,DW

Airflow control for onion store.

(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.11, No.2, pp 148-167, 1998

Janssen,G

Buoyancy effects in a belt conveyor furnace.

(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May.

Filho,RM Nunhez,JR Bezerra,VM

Methodology of obtaining CFD results in stirred tank applications.

(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May.

Davies,TW Pratt,SJ

Convective heat transfer from a pair of contra-rotating cylinders.

(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.11, No.1, pp 12-24 1998.

Mitianiec,W

Three-dimensional gas flow through inlet reed valve in a two-stroke engine.

(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May. The PHOENICS Journal of PHOENICS and its Applications, Vol.11, No.1, pp 01-11, 1998

Bolot,R Coddet,C Imbert,M

The use of the PHOENICS code for plasma jet modelling.

(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No.3, pp335-352

Noh,HK Parks,JH

A numerical study on switching operation characteristics of low temperature heat pipe with multiple heaters.

(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.11, No.2, pp 198-223, 1998

Booij, R

Computation of the flow in a carousel.

(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No.4, pp364-373.

Mege,P Ferschneider,G

Eulerian simulation of dilute gas-solid flow.

1997) Proceedings, 7th International PHOENICS User Conference, Seville, May. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No4, pp 416-431.

Spalding,DB

Simultaneous fluid-flow, heat-transfer and solid-stress computation in a single computer code.

Murena,F d'Alessandro,C Giola,F

CO dispersion in urban street canyons.

(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No.4, pp 405-415.

Rooks,S Smith,AG Hayward,LR

The use of PHOENICS for modelling helicopter flow fields.

(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.11, No.1, pp 103-112, 1998.

Knudsen,M

The mixing processes in aeration tanks in waste water treatment plants modeled with PHOENICS.

(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No.3, pp 250-261.

Svensson,U

Modelling groundwater flow on a regional scale.

(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No.4, pp 442-450.

Zhubrin,S

ROSA: River oil spill analyser.

(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.11, No.1, pp 51-64, 1998.

Gollner,A Pfeiler,A Mindt,H-W Megahed,M

Optimising solar energy utilization in buildings using numerical techniques – Heat utilization in atriums.

(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No.4, pp 451-460.

Smith,AG Taylor,K

The simulation of an aircraft engine intake anti-icing system.

(1997) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No.2, pp 150-166.

Pierrat,D Ledoux,C Garnaud,A

Use of PHOENICS for domestic burner flows simulation at Gaz de France.

(1997) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No.3, pp 313-334.

Rashad,MA Davies,GA Bos,A

CFD modelling of flow distribution methods in primary separators.(1997) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No.4, pp 374-390.

Kuijlaars,KJ Kleijn,CR van den Akker,HEA

Transient simulations of selective chemical vapour

(1997) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No.4, pp 391-404.

Solhed,H Jonsson,P Wahlberg,B

Efforts to improve steel cleanness in the tundish.

(1997) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No.4, pp 432-441.

Hamad,FA Khan,M Bruun,HH

A comparison of predicted and experimental phase distribution and turbulence in two phase flow.

(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May.

Schmalzriedt,S Reuss,M

Application of computational fluid dynamics to simulations of mixing and biotechnical conversion processes in stirred tank bioreactors.

(1997) MixingIX, Recent Advances in Mixing, Paris-Marne La Vallee 1997, Vol.11, Lavoisier Technique et Documentation paris, pp 171-178.

Katsaounis,A Papanikas,DG Fertis,DK Margaritis,DP

Dynamic T-junction separator for multiphase transport pipelines.

(1997) Proceedings of 4th World Conference on Experimental Heat Transfer, Fluid Mechanics and thermodynamics, Brussels, June 2-6, vol.2, pp 1045-1052.

Eckhardt,BD

X-38 cabin condensation study.

(1997) Proceedings of the Eighth Annual Thermal and Fluids Analysis Workshop Spacecraft Analysis and Design, September 8-11, at University of Houston, Clear Lake.

Malin, MR

The turbulent flow of Bingham plastic fluids in smooth circular tubes.

(1997) International Communication Heat mass Transfer, Vol.24, No.6, pp 793-804. Published by Elsevier Science, USA.

Davies,TW Carter,MC

Convective heat transfer from a hot rotating cylinder with jet impingement.

(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.11, No.1, pp 81-96, 1998.

Malin,MR

Modelling flow in an experimental marine condenser.

(1997) International Conference in Heat and Mass Transfer, Vol. 24, No.5, pp 597-608.

Fueyo,N Gambon,V Ballester,J Dopazo,C Gonzalez,JF

Numerical simulation of an arch-fired coal-boiler using an Eulerian-Eulerian model.

(1997) Fourth International Conference on Technologies and Combustion for a clean environment, Lisbon, Portugal, July.

Garcia, J Crespo,A

A model of turbulent two-phase flashing jets.

(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No.3, pp 275-286.

Fraser,SM

Computational fluid dynamics (CFD) – Is it more than “Colourful Fluid Dynamics”

Sennoun,MH Charette, A Potocnik,V

New turbulent combustion in PHOENICS 2.1

(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.11, No.1, pp 25-50, 1998.

Radosavljevic,D Gebara,JM

CFD: Design assessment case studies in offshore and marine industries.

Proceedings, "Application of Fluid Dynamics in the Safe Design of Topsides and Superstructures". The Institute of Marine Engineers, London, 26 February.

Zhang,L Toh,KC Chan,TW

Improving the thermal performance of pin fin heat sinks under forced convection.
(1997) proceedings, Joint MINDEF-NTU R&D Seminar, Singapore, pp 179-185.

Malin,MR Younis,BA

Improving the thermal performance of pin fin heat sinks under forced convection.
(1997) International Communications in Heat & Mass transfer, Vol.24, no.1, pp 89-98.

Fueyo,N Ballester,J Dopazo,C

The computation of particle size in Eulerian-Eulerian models of coal combustion.
(1997) International Journal of Multiphase Flow, Vol.23, No.3 pp 607-612.

Hornby,RP Spence,G

PHOENICS simulation of the burn-off deposited carbon in a nuclear reactor by controlled injection of small quantities of oxygen.
(1997) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No.1, pp 87-122

D Brian Spalding

Simultaneous fluid-flow, heat-transfer and solid-stress computation in a single computer code
(1997) Helsinki University 4th International Colloquium on Process Simulation, Espoo, 1997

Baklanov,A Burman,J Naslund,E

Numerical modelling of three-dimensional flow and pollution transport over complex terrain.
(1997) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No.1, pp 57-86.

Castillejos,AH Acosta,FA Escobedo,JC Flores,A

Fluid flow and particle trajectories inside ceramic filters used for molten metal cleanliness.
(1997) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No.1, pp 27-56

Agranat,V Kawaji,M Tran,HN

Numerical simulation of lower furnace heat transfer in a Kraft recovery boiler.
(1997) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No.1, pp 17-26.

Semin,VA Spalding,DB

The car-body and stirred-reactor: WUA-CFD test cases, performed by PHOENICS.
(1997) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No.1, pp 1-16.

Jenne,M Reuss,M

Fluid dynamic modelling and simulation of gas-liquid flow in baffled stirred tank reactors.
(1997) Mixing IX, Recent Advances in Mixing, Paris-Marne La Vallee 1997, Vol.11, Lavoisier Technique et Documentation, Paris, pp 201-208.

Hibbert,SE Phelps,PJ

Blast assessment of a jack-up MODU using CFD.
(1997) Proceedings, "Application of Fluid Dynamics in the Safe design of Topsides and Superstructures". The Institute of Marine Engineers, London, 26 February.

Villafruela, JM Mendez, C Sanchez, LM Castro, F

Bidimensional wake modelling of slender ornamental objects.

(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May.

Vaarno, J Pitkala, J Ahokainen, T Jokilaakso, A

A cold model of gas injection in a Peirce-Smith converter.

(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No.3, pp 297-312.

Zamora, B Hernandez, J

Numerical analysis of flow reversals in natural convection cooled vertical channels

(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.11, No.2, pp 168-186.

Thomson, A Fraser, CJ

A new approach to calculating the start of transition for engineering flow types.

(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No.3, pp 353-363.

Thomson, A.

Prediction of transitional boundary layer properties from CFD software in Engineering Flows.

(1997) PhD Thesis, University of Abertay, Dundee.

Guimaraes, FMQ Rubiao, LEG

Solving multiphase liquid flow problems with PHOENICS: Case studies.

(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No.3, pp 262-274.

Taylor, K Smith, AG

CFD prediction of exhaust plumes and interaction with superstructure.

(1997) Proceedings, "Application of Fluid Dynamics in the Safe Design of Topsides and Superstructures", The Institute of Marine Engineers, London 26 February.

Rew, HS

Turbulence model assessment in complex turbulent flows.

(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No.3, pp 287-296.

Stickland, MT Scanlon, TJ Oldroyd, A Waddell, P Crawley, F Stubbs, B

An experimental and computational analysis of buoyancy-driven flows by laser sheet tomography, particle image velocimetry and computational fluid dynamics.

(1997) Proceedings, The First Pacific Symposium on Flow Visualisation and Image Processing, Honolulu, February.

Spalding, DB

Multi-fluid turbulent combustion model.

(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May.

Fueyo, N Gambon, V

An Eulerian-Eulerian model of coal combustion for the simulation of utility boilers.

(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No.2, pp 123-149.

Scanlon, TJ

A numerical analysis of flow and dispersion around a cube

Kawato,T Ikeda,T Tsujitani,M Nishioka,T

Research on friction factor of duct (second report); the duct friction factor about duct penetration materials.
(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May.

Declercq,J Erkens,N van den Bulck,E

Numerical investigation of laminar natural convection in a foil type transformer.
(1997) Proceedings, "International Symposium on Advances in Computational Heat Transfer", Cesme, Turkey.

Sherlock,J-P Sharratt,P Hayes,P Tremayne,J

Use of CFD to predict mixing characteristics in a novel induction furnace.
(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No.2, pp 167-178.

Lee,D-B

Numerical simulation of oblique shock wave/turbulent boundary layer with wall heat transfer.
(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No.2, pp 179-193.

Bertrand,C Jenkins,B Moles,F

Aerodynamics simulations of an industrial stationary furnace.
(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No.2, pp 194-211.

Scanlon,TJ

Different CFD solutions to the vortex shedding problem.
(1997) Proceedings, 7th International PHOENICS User Conference, Seville, May. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.10, No.2, pp 212-226

Erdal,A & Andersson, HI

Numerical aspects of flow computation through orifices
(1997) Flow Meas. Instrum. Vol.8, No.1, pp 27-37

Erdal, A

A numerical investigation of different parameters that affect the performance of a flow conditioner
(1997) Flow Meas. Instrum. Vol.8, No.2, pp 93-102

1996

M. Phil,

A Computational Study of Gas Leak Jets Relevant to Offshore Structures.
(1996) Benjamin Alec Field Simpson – January

Spalding D Brian

Multi-Fluid Models of Turbulence Progress and Prospects.
(1997) Proceedings CFD 96, National Research Council, Canada, ISBN 0-660-16479-5, pp 27-56

Spalding D Brian

Progress Report on the Development of a Multi-Fluid Model of Turbulence and its Application to the Paddle-Stirred Mixer

(1997) Proc 3rd Colloquium Process Simulation, Helsinki University, Espoo, Finland, ISBN 0785 5168, pp 2-28

Spalding D Brian

Multi-Fluid Models of Turbulent Gaseous Combustion

(1997) Proceedings Joint Meeting Portuguese, British, Spanish, Swiss Combustion Institute, pp23 1.1-23 1.5

Agonafer D, Gan-Li L, Spalding D Brian

The LEVEL Turbulence Model for Conjugate Heat Transfer at Low Reynolds Numbers.

(1996) International Mechanical Engineering Congress and Exposition, Atlanta, USA

Semin V, Spalding D Brian, Zhubrin S V

Two Novel Algorithms for the Simulation of Flow Around Turbine Blades.

Latest Advances in the Aerodynamics of Turbomachinery with special emphasis on Unsteady Flows

(1996) Seminar Institute of Mechanical Engineers, London UK.

Spalding, DB Zhang, Q

ASAP. Simulating complex flows with Cartesian mesh.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.4, pp 533-554.

Spalding, DB

PLANT.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.4, pp 469-475.

Boisson, N., Malin, M.R.

Numerical prediction of two-phase flow in bubble columns

(1996) *International Journal for Numerical Methods in Fluids*, 23 (12), pp. 1289-1310.

Kuijlaars, K.J., Kleijn, C.R., Van Den Akker, H.E.A.

Modeling of selective tungsten low-pressure chemical vapor deposition

(1996) *Thin Solid Films*, 290-291, pp. 406-410.

Baskaya, S., Gilchrist, A., Fraser, S.M.

Buoyancy-induced flow through a narrow chamber containing an internal heat source : Comparison of experimental measurements and numerical simulations

(1996) *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, 210 (5), pp. 489-498.

Wang, W., Davies, G.A.

CFD studies of separation of mists from gases using vane-type separators

(1996) *Chemical Engineering Research and Design*, 74 (2), pp. 232-238.

Knowles, K.

Computational studies of impinging jets using k- ϵ turbulence models

(1996) *International Journal for Numerical Methods in Fluids*, 22 (8), pp. 799-810.

Yongxiang, Yang

Computer simulation of gas flow and heat transfer in waste-heat boilers of the Outokumpu copper flash smelting process

(1996) *Acta Polytechnica Scandinavica, Chemical Technology and Metallurgy Series*, (242), pp. 2-134.

Yang, Y.

Computer simulation of gas flow and heat transfer in waste-heat boilers of the outokumpu copper flash smelting process

(1996) *Acta Polytechnica Scandinavica, Chemical Technology Series*, (242), pp. X-135.

Moureh, J., Ding, Y., Flick, D.

Experimental and numerical characterization of heat transfer through a plan horizontal air jet [Caractérisation expérimentale et numérique des transferts de chaleur à travers un jet d'air plan horizontal]

(1996) *Revue Generale de Thermique*, 35 (415), pp. 469-474.

Moureh, J., Flick, D., Lema Larrieu, P.

Hydrodynamic and thermal study of a conical rotating heat exchanger [Etude hydrodynamique et thermique d'un échangeur de chaleur à noyau tournant conique]

(1996) *Revue Generale de Thermique*, 35 (414), pp. 402-407.

Cha, P.-R., Hwang, Y.-S., Oh, Y.-J., Chung, S.H., Yoon, J.-K.

Numerical analysis on cold crucible using 3D H- ϕ method and finite volume method with non-staggered BFC grid system

(1996) *ISIJ International*, 36 (9), pp. 1157-1166.

Dargent, C., Grazzini, F., George, J., Dartus, D.

Numerical simulation of the vortex shedding around a square cylinder

(1996) *International Conference on Air Pollution - Proceedings*, pp. 257-266.

Wen, J.X., Huang, L.Y.

Numerical study of a condensing boiler heat exchanger

(1996) *International Symposium on Heat Transfer*, pp. 591-596.

On the mixture model for multiphase flow

(1996) *VTT Publications*, (288), pp. 3-67.

Björkman, J., Keski-Rahkonen, O.

Simulation of the steckler room fire experiment by using SOFIE CFD-model

(1996) *VTT Publications*, (265), pp. 3-28.

Kleinig, A.R., Middelberg, A.P.J.

The correlation of cell distribution with homogenizer valve pressure gradient determined by computational fluid dynamics

(1996) *Chemical Engineering Science*, 51 (23), pp. 5103-5110.

Berbente, C., Zancu, S.

Theoretical investigations of flows through single-sided sudden expansion

(1996) *UPB Scientific Bulletin, Series A: Applied Mathematics and Physics*, 57-58 (1-4), pp. 84-92.

Mailutha, J.T., Murase, H., Honami, N.

Use of computational flow dynamics code for modeling the behaviour of airborne dust on the surface of solar cell for maximizing solar energy for controlled environment

(1996) *Acta Horticulturae*, 440, pp. 320-325.

Delaunay, D.

Numerical simulation of atmospheric dispersion in an urban site: Comparison with field data

(1996) *Journal of Wind Engineering and Industrial Aerodynamics*, 64 (2-3), pp. 221-231.

Yu, G., Zhang, Z., Lessmann, R.

Computer simulation of the flow field and particle deposition by diffusion in a 3-D human airway bifurcation
(1996) *Aerosol Science and Technology*, 25 (3), pp. 338-352.

Chow, W.K.

Design of ventilation system in a big enclosed car park using computational fluid dynamics
(1996) *Architectural Science Review*, 39 (3), pp. 141-146.

Dutz, H., Krämer, D., Zucht, B., Althoff, K.H., Anton, G., Arends, J., Beulertz, W., Bock, A., Breuer, M., Gehring, R., Gemander, M., Goertz, S., Helbing, K., Hey, J., Meyer, W., Nöldeke, G., Paulsen, R., Reicherz, G., Thomas, A., Wartenberg, S.

Photo production of positive pions from polarized protons
(1996) *Nuclear Physics A*, 601 (3-4), pp. 319-332.

Chen, G.-R., Shaw, H.-J.

Computation of three-dimensional jet-flapped wing in viscous flow
(1996) *Transactions of the Japan Society for Aeronautical and Space Sciences*, 39 (123), pp. 126-141.

Werner, C., Ilg, M., Uram, K.

Three-dimensional equipment modeling for chemical vapor deposition
(1996) *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, 14 (3), pp. 1147-1151.

Hsiun, C.-M., Chen, C.-K.

Aerodynamic characteristics of a two-dimensional airfoil with ground effect
(1996) *Journal of Aircraft*, 33 (2), pp. 386-392.

Olika, B., Pan, Y., Björkman, B., Grip, C.E.

Numerical simulation and industrial investigation on the melt stratification phenomena in ladles holding molten steel
(1996) *Scandinavian Journal of Metallurgy*, 25 (1), pp. 18-26.

Tan, F.L., Fok, S.C.

Visualization of the casting process through computer animation
(1996) *Journal of Materials Processing Technology*, 57 (1-2), pp. 201-205.

Ravnikar, Igor, Petelin, Stojan

3D calculation of boiling in complex geometry of steam generator
(1996) *Proceedings of the American Power Conference*, 2, pp. 783-788.

Zhou, Dadong, Wang, Ting, Ryan, William R.

Cold flow computations for the diffuser-combustor section of an industrial gas turbine
(1996) *American Society of Mechanical Engineers (Paper)*, pp. 9pp.

Zhou, D., Wang, T., Ryan, W.R.

Cold flow computations for the diffuser-combustor section of an industrial gas turbine
(1996) *ASME 1996 International Gas Turbine and Aeroengine Congress and Exhibition, GT 1996*, 3, .

Sipavichyus, Ch., Vaitiekunas, P., Milutis, E.

Determination of critical characteristics of gas jet under finishing laser cutting
(1996) *Proceedings of SPIE - The International Society for Optical Engineering*, 2713, pp. 259-266.

Chen,Q Jiang,Z

Simulation of a complex air diffuser with CFD technique.

(1996) Proceedings of the 5th International Conference on Air Distribution in rooms, ROOMVENT 96, Vol.1, pp 227-234, Yokohama, Japan July 17-19.

He,W Chen,Q

Three-dimensional and dynamic performance of molten carbonate fuel cell stacks.

(1996) Proceedings of the Fuel Cell Seminar, pp 406-409, Orlando, Florida, November 17-20.

He,W Chen,Q

Three-dimensional and dynamic distributions of temperature and current density in molten carbonate fuel cell stacks.

(1996) Proceedings of the ASME Advanced Energy Systems Division, The ASME International Mechanical Engineering Congress and Exposition, ASE-Vol.36, pp 285-293, Atlanta, Georgia November 17-22.

Chen,Q

Prediction of room air motion by Reynolds-stress models.

(1996) Building and Environment, Vol.31, pp 233-244.

Brink,A Kilpinen,P Hupa,M Kjaldman,L Jaaskelainen,K

Improved gas phase chemistry for furnace simulations.

(1996) 6th International Conference on Numerical Combustion, New Orleans, USA, March 4-6.

Ranade,VV Kumaran,G Kumar,C

Flow structures in bubble columns: CFD modelling and simulations.

(1996) International Conferences on Advances in Chemical Engineering (ICACHE 96) madras, India.

Chen,Q Chao,NT

Prediction of buoyant plume and displacement ventilation with different turbulence models.

(1996) Proceedings of the 7th International Conference on Indoor Air Quality and Climate, INDOOR AIR 96, Vol.1, pp 787-792, Nagoya, Japan, July 22-26.

Tannous,AG

Air flow simulation in a minienvironment.

Solid State Technology, July

Rujano,IR Rahman,MM

Transient response of microchannel heat sinks in a silicon substrate.

(1996) Dept. of mechanical Engineering, University of South Florida, Tampa Florida.

Jenne,M Reuss,M

Modellierung und Simulation der dreidimensionalen, turbulent Stroemung in Ruehrkesselreaktoren.

(1996) Chemie Ingenieur Technik 3/96, pp 295-299. Publisher: Dechema, Germany.

Raghavan,J Rahman,MM

Transient response of discrete heat sources on a conducting board in the presence of cross flow mixed convection.

IEEE, paper No. 96 117.

Kluck,J

Design of storm water settling tanks for combined sewer overflows.

(1996) Proceedings, 7th International Conference on Urban Storm Water Drainage, hannover, September.

Bae, JH Lee, JH

A numerical study on the heat transfer and flow around a lanced fin applied for heat exchanger of air conditioners.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.4, pp 476-491

Liping, LI

Mathematical modeling of fluid flow and mixing in metallurgical reactors with bottom gas injections.

(1996) Ph.D Thesis, Massachusetts Institute of Technology.

Kumar, C Kumaran, G Ranade, VV

Fluid dynamic modeling of standard and slotted orifice flow meters.

Davies, TW Buxton, AC

Convective heat exchange between an array of round air jets and an impingement surface.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.1, pp 101-115.

Luoma, M Smith, AG

The use of PHOENICS in the design of catalytic converters.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.1, pp 76-100.

Ranade, VV Kumaran, G

Computational Fluid Dynamics for piping engineering.

Quoc, HL Brunold, A Oelschiagel, F Schnabel, R

Process modelling of the cross linking reaction taking place in an elastomer component of a polymer blend of type PP/NBR produced in a tightly intermeshing co-rotating twin screw extruder

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No1, pp .

Pericleous, KA Dempsey, S

Development of a fractal based LES model in PHOENICS.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.1, pp41-50.

Palanisamy, V Tada, Y

Investigation of flow in input manifold of pressurised gas reactors using PHOENICS.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.3, pp 434-449.

Brink, A Hupa, M Kjaldman, L

An extinction model for turbulent diffusion flames.

(1996) Proceedings, 6th Symposium (Int,) on Combustion, Naples, Italy. Published by the Combustion Institute.

Delaunay, D Lakehal, D Barre, C Sacre, C

Numerical and wind-tunnel simulation of gas dispersion around a rectangular building.

(1996) Proceedings, 2nd International Symposium on Computational Wind Engineering, Colorado, USA August 4-8.

Grevskott, S Sannaes, BH Dudukovic, MP Hjarbo, KW Svendsen, HF

Liquid distribution, bubble size distributions and solids movement in two- and three-phase bubble columns.

(1996) Chemical Engineering Science, vol.51, No.10, pp 1703-1713 and ISCRE 14 Conference, May, Brugge, Belgium.

Brink,A Kilpinen,P Hupa,M Kjaldman,L Jaaskelainen,K

Modelling of local extinction and reignition of the flame.

(1996) Proceedings, 3rd Colloquium on Process Simulation, Espoo, Finland, June 12-14.

Wardenier,K van den Bulcke,E

Steady state waste combustion and air flow optimization in a field scale rotary kiln.

Myszko,M Knowles,K

Numerical modelling of a single impinging jet and experimental validation.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.1, pp 51-60

Ohnuki,A Araya,F Akimoto,H

Analysis of residual heat removal process due to natural circulation in a water pool of a passive safety light water reactor.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.3, pp 326-342

Dierckx,T van den Bulcke,E

Simulation and experimental validation of a small scale premixed natural gas vortex burner.

(1996) Proceedings, 15th "Journées d'études" of the Belgian Section of the Combustion Institute, Louvain-la-neuve, Belgium, May 20-21.

Haidar, NIA

Prediction of flow characteristics in 90 o bends.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9 No.3, pp 450-468.

Wardenier, K van den Bulcke,E

Air flow optimization in a field scale rotary kiln.

(1996) Proceedings, 15th "Journées d'études" of the Belgian Section of the Combustion Institute, Louvain-la-neuve, Belgium, May 20-21.

Jeong,KT Huh,KY

Comparison of turbulent diffusion combustion models and application to a gas Burner with PHOENICS-2.1.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.3, pp 424-433.

Kabiri, K

Deicing simulation of the windshield.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.3, pp 412-423

Svensson,U

The fluid population concept in ground water modelling.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.3, pp 378-386.

Ma,P Ferng,YM Ma,KT

Influence of local fluid-flow parameters on two-phase flow elbows for flow assisted corrosion prediction.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.3, pp 387-411.

Zhubrin,SV

PHOENICS in forecasting the transport and fate of pollutants in rivers.

(1996) PHOENICS User Conference, Atlanta, GA, USA March .

Baskaya,S Gilchrist,A Fraser,SM

Buoyancy induced flow through a two-dimensional chamber containing an internal heat source: Comparison of LDA measurement and numerical solution.

(1996) J. of Eng. Science.

Dempster,WM

The modelling of flooding in a PWR Downcomer.

(1996) Published in ICone-4, March, New Orleans.

Hadjerioua,B Mobley,MH Hauser,GE Brock,WG

Modelling of surface water pumps in TVA reservoirs.

(1996) Presented at a meeting of the American Society of Civil Engineering, June.

Gardin,P

Heat transfer on a moving strip by impinging jets.

The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9 no.1. pp 101-115

Megahed, M

Assessment of two-equation turbulence models for simulating swirling flows as applied to swirl burners.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.2, pp 259-277

Smith,AG

Some operational considerations of using PHOENICS.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No., pp 1-15.

Jal.EN

Use of PHOENICS for turbomachinery applications at GEC Alsthom.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.1, pp 16-40.

Cutbill,SC Smith,AG Tumelty,M Gregory-Smith,DG

Modelling Coanda effect flows using PHOENICS

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.2, pp 229-252

Endoh,K Sagisaka,M

Simulation for the diffusion of high density gas around blocks.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.3, pp 308-325.

Huang,L Wen,JX Karayiannis,TG Mathews,RD

CFD Modelling of fluid flow and heat transfer in a shell and tube heat exchanger.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.2, pp 181-209.

Verloop,WC

Experience in Computing the flow in a torpedo car.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.2, pp 210-228.

Glynn,DR Eckford,DC Pope,CW

Smoke concentrations and air temperatures generated by a fire on a train in a tunnel.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.1, pp 157-168.

Zhang,Q Davies,GA

Simulation of two-phase flow in a cross flow separator.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.1, pp 139-156.

Rooks, S

Preliminary investigations into the use of PHOENICS for evaluation of aerodynamic heating phenomena.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.1, pp 61-75.

Fueyo,N Larroya,JC Valino,L Dopazo,C

A combined CFD-Monte Carlo method for the solution of the scalar PDF equation in turbulent reaction.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.1, pp 116-138.

Krukovsky,PG

Concerning a possibility of solution of inverse and optimization heat transfer and fluid flow problems using PHOENICS and Software-FRIEND.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.4, pp 516-532.

Madhav,MT Malin,MR

The efficient calculation of fully developed duct flows.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.4, pp 492-501.

Chow,WK

Estimation of air temperature induced by a heat source in a compartment with displacement ventilation.

(1996) Journal of Environmental Systems, Vol.24, No.2, pp 205-219.

Nagai,M

Analysis of a diamond CVD process using computer simulation.

(1996) Ph.D. Thesis, Massachusetts Institute of Technology.

Thomas,A Fraser,CJ

Modelling boundary layer transition using PHOENICS CFD Software.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.1, pp 169-180.

Rhodes,DG Senior,AK

Two-layer k-e model of boundary shear in a rextangular duct.

(1996) Published in Conference Proceedings, 2nd International Conference on Hydrodynamics (ICHD-96)

Dierckx,T van den Bulcke,E

Simulation and experimental validation of a small scale premixed natural gas vortex burner.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.2, pp 253-258

Fang,MTC Kwan,S Hall,W

Arc-shock interaction inside a supersonic nozzle.

(1996) IEEE transactions on plasma Science, Vol.24, No.1,February.

Vaitiekunas P, Katinas, V, Zukauskas, A

Simulation of turbulent recirculating flow using PHOENICS.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.2, pp 293-307.

Kinoshita, K

Crystal growth of Pb(1-x)Sn(x)Te by a physical vapour transport method in microgravity – computer simulation-

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.3, pp 343-353.

Lee, D-B

Numerical computation of oblique-shock-wave/turbulent-boundary-layer interaction.

(1996) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.9, No.3, pp 354-377

Declercq, J, Dutre, W

Second order turbulence simulation including turbulent heat flux modelling from a surface with uniform heat flux and impinging jet.

(1996) Published in Proceedings, International Conference on Turbulent Heat transfer, San Diego, CA March.

Ashford-Frost, S, Jambunathan, K

Numerical prediction of semi-confined jet impingement and comparison with experimental data.

(1996) International Journal for Numerical Methods in Fluids, Vol.23, pp 295-306.

1995

Spalding D Brian

Multi-Fluid Models of Turbulent Combustion.

(1995) Proceedings of the Seventh Biennial Conference, Computational Techniques And Applications: CTAC 95, World Scientific Publishing Co. Pte Ltd, ISBN 981-02-2820-1, pp 59-81

Spalding D Brian

Models of Turbulent Combustion

(1995) Proc 2nd Colloquium on Process Simulation, Helsinki University, Espoo, Finland, June 1995, ISBN 951-22-2602-2, pp 1-15.

Freeman D J, Spalding D Brian

The Multi-Fluid Turbulent Combustion Model and its Application to Simulation of Gas Explosions.

(1995) PHOENICS Journal of Computational Fluid Dynamics, ISBN 0969-8248, Vol 8 No. 3 pp 225–295.

Spalding D. Brian

Multi-Fluid Models of Turbulence.

(1995) PHOENICS User Conference, Trento, Italy

van den Berghe, C.S., Baltas, N.D.

DAP Phoenix: Porting a CFD code to a SIMD computer

(1995) *Simulation Practice and Theory*, 3 (4-5), pp. 239-256.

Ravnikar, I., Petelin, S.

3D model of steam generator of nuclear power plant Krsko

(1995) *Proceedings of the Meeting on Nuclear Energy: Central Europe: Present and Perspectives*, pp. 464-471.

Monclova, L.A., Forney, L.J.

Numerical simulation of a pipeline tee mixer

(1995) *Industrial and Engineering Chemistry Research*, 34 (4), pp. 1488-1493.

Pritchard, J., Nurnberg, G., Shoukri, M.

Design optimization of high pressure quench vacuum furnaces through computer modelling
(1995) *Industrial Heating*, 62 (9), pp. 57-60.

Dutta, Sandip, Andrews, Malcolm J., Han, Je-Chin

Simulation of turbulent heat transfer in a rotating duct
(1995) *Journal of thermophysics and heat transfer*, 9 (2), pp. 381-382.

Reicherz, G., Bradtke, C., Dutz, H., Gehring, R.M., Goertz, S., Krämer, D., Meyer, W., Plückthun, M., Thomas, A.
The Bonn polarized target NMR-system

(1995) *Nuclear Inst. and Methods in Physics Research, A*, 356 (1), pp. 74-78.

Price, J.W., Anton, G., Arends, J., Beulertz, W., Bock, A., Breuer, M., Büchler, K., Clajus, M., Detemple, P., Hey, J.,

Krämer, D., Meyer, W., Nefkens, B.M.K., Nöldeke, G., Schneider, W., Zucht, B.

η meson photo production on hydrogen near threshold
(1995) *Physical Review C*, 51 (5), pp. R2283-R2287.

Nizou, P.Y., Tida, T.

Heat and momentum transfer in plane turbulent wall jets [Transferts de chaleur et de quantité de mouvement dans les jets pariétaux plans turbulents]

(1995) *International Journal of Heat and Mass Transfer*, 38 (7), pp. 1187-1200.

Vlad, G., Boiron, O., Le Palec, G., Bournot, P.

Numerical study of the compressible turbulent flow in a laser cavity

(1995) *International Journal of Heat and Mass Transfer*, 38 (14), pp. 2623-2633.

Vlad, G., Boiron, O., Le Palec, G., Bournot, Philippe

Numerical study of the compressible turbulent flow in a laser cavity

(1995) *Proceedings of SPIE - The International Society for Optical Engineering*, 2502, pp. 565-570.

Mazumdar, D., Guthrie, R.I.L.

On the numerical computation of turbulent fluid flow in CAS steelmaking operations

(1995) *Applied Mathematical Modelling*, 19 (9), pp. 519-524.

Hadjerioua, Boualem, Eldredge, Tom V., Mobley, Mark H.

Reservoir oxygenation by oxygen diffusers

(1995) *International Water Resources Engineering Conference - Proceedings*, 2, pp. 1451-1455.

Shelley, T.

Right tools speed better solutions

(1995) *Eureka - Engineering Materials & Design*, 15 (6), pp. 35-37.

Kuijlaars, KJ Kleijn, CR van den Akker, HEA

Modelling of gas-phase and surface chemistry in PHOENICS-CVD

(1995) *The PHOENICS Journal of Computational Fluid Dynamics and its Applications*, Vol.8 No.4, pp 439-454

Kuijlaars, KJ Kleijn, CR van den Akker, HEA

Modelling of cold wall tungsten CVD reactor: Validation of PHOENICS-CVD.

(1995) *The PHOENICS Journal of Computational Fluid Dynamics and its Applications*, Vol.8, No.4, pp 465-490.

Freeman, DJ and Spalding, DB

The multi-fluid turbulent combustion model and its application to simulation of gas explosions.

(1995) *The PHOENICS Journal of Computational Fluid Dynamics and its Applications*, Vol.8, No.3, pp 255-295.

Gadepalli, P Rahman,MM

Conjugate mixed convective heat transfer in electronic equipment.

(1995) Dept. of mechanical Engineering, University of South Florida, Tampa.

Kleijn,CR Kuijlaars,KJ

The modelling of transport phenomena in CVD reactors.

(1995) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.8, No.4, pp 404-420.

Mortimer,SC

Writing your name in PHOENICS

(1995) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.8 no.3, pp 371-401.

Avila,F Rojas,J

Numerical simulation of transient natural convection in a heated inclined wall cavity with two fluids of different density.

(1995) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.8, No.3, pp339-370

Christopher,DM Wang,BX

Marangoni flow around a vapor bubble.

(1995) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.8, No.3, pp296-310.

Montenegro,HS Choucino,MA

A pulverized coal combustion global model with NOx formation.

(1995) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.8, No.3, pp 311-338

Kersch,A

Radiative heat transfer modelling.

(1995) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.8, No.4, pp421-438.

Brinkmann,RP Werner,CHR Fuerst,R

The effective drift-diffusion plasma model and its implementation into PHOENICS-CVD.

(1995) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.8, No.4, pp 455-464.

Pathanjali,C Rahman,MM

Analysis heat transfer and contaminant transport in fume hoods.

Dept. Mechanical Engineering, University of South Florida.

Poscher,S Poscher,M

Simulation of a Si₃N₄ hot wall batch reactor.

(1995) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.8, No.4, pp 491-499.

Huussen,F

Design of a high temperature batch furnace using computer simulation.

(1995) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.8, No.4, pp 523-537.

Werner,CH Hierlemann, M

Application of PHOENICS-CVD to epitaxial Si/Ge, polysilicon and silicon deposition in a range of CVD reactors.

(1995) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.8, No.4, pp 538-552

Zhurbrin,SV

The computer simulation in forecasting effects of oil discharge accidents on underwater pipelines (in Russian)

(1995) Published in "Oil Pipe Transport", N5, pp 20-29

Yakushin,AA Yaskin,MI Zhubrin,SV

Practical evaluation of turbulent models applied to wind turbine wakes calculations.

(1995) Presented at "Wind energy applications in non-flat and complex terrain" workshop, Kaiserslautern, 16-17 February.

Khrupov,AP Zhubrin,SV

Dispersion of gas in a town (In Russian).

(1995) Published in the Journal of Theoretical and Applied Science, Vol.3

Torvik,R Gravdahl,AR Fredriksen,GR

Design of HPPE stirred autoclaves using 3D computational fluid dynamics.

DECHEMA Monographs, Vol.131

Zhubrin,SV Khrupov,AP

Airborne pollution dispersion in urban area (in Russian)

Published in "Vestnik MEI", N3 pp 11-21

Acosta,FA Castillejos,AH Almanza,R Flores,A

Analysis of liquid flow through ceramic porous media used for molten metal filtration.

(1995) Metallurgical and Materials Transactions, Vol.26B, pp 159-171.

Rujano,JR Rahman,MM

Analysis and computation of conjugate heat transfer in trapezoidal microchannel heat sinks in a silicon substrate.

(1995) HTD, Vol.305, National Heat Transfer Conference – vol.3, ASME, pp 175-185.

Vanormelingen,J van den Bulcke,E

Optimized combustion in grate fired combustion systems.

(1995) Submitted for the 3rd European Conference on Industrial Furnaces and Boilers , Lisbon, April 18-21.

Brinkmann RP, Vogg, G Werner, CH

Plasma enhanced deposition of amorphous silicon.

(1995) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.8, No.4, pp 512-522

Maki-Mantila,E Oksanen, A

Nitric oxide formation in combustion of different gaseous fuels.

(1995) Tampere University of Technology, Energy and process Engineering, Tampere, Finland Report 105.

Spalding,DB

Models of turbulent combustion.

Proceedings of the 2nd Colloquium on Process Simulation, Espoo, Finland, 6-8 June.

Fuller,L Trammel,R Harshburger,E Kaler,M Tingle,P Rizk,T Kosvic,T

Impact of secondary air distribution on NOx generation rate in large utility boilers.

(1995) Proceedings , EPRI/EPA Joint Symposium on Stationary Combustion NOx Control.

Majander,EOJ Manninen,MT Aittamaa,JR Eilos,IH Keskinen,KI Rihko,LK

Simulation of TAME reactions in a small lab scale reactor using CFD combined with physical properties and reaction kinetics in a flowsheeting program.

(1995) Proceedings of the 2nd Colloquium on Process Simulation, Espoo, Finland, 6-8 June

Kjaldman, L

Numerical simulation of combustion and nitrogen pollutants in furnaces.

(1995) Dissertation, Technical Research Centre of Finland, VTT Publications 159.

Perrusquia,G Petersen,O Larsen, T

Hydraulic resistance in part full sewer pipes.

Proceedings< IAWQ Specialised Conference on The Sewer as a Physical, Chemical and Biological Reactor, Aalborg University.

Perrusquia,G Petersen,O Larsen,T

Influence of sewer sediments on flow friction and shear stress distribution.

(1995) Water Science and Technology.

Agranat<V Fiterman,A Kribus,A

Theoretical and numerical analysis of mixed convection flow and radiative heat transfer in a solar receiver.

(1995) Proceedings, 3rd Annual Conference of the CFD Society of Canada, Banff, Alberta, June 25-27.

Herzau,J Kubik,D Wanninger,K Petrill,E Dene,C Facchiano,T Kosvic,T Rizk,T Hollinden,J

Methodology for the selection of low NOx firing alternatives.

(1995) Proceedings, EPRI/EPA Joint Symposium on Stationary Combustion NOx Control.

Sollic, C Lakenahl, D

Numerical simulation and wind tunnel measurement of wind flow past round shaped buildings.

(1995) Presented at the 9th International Conference on Wind Engineering, New Delhi 9-13 January.

Kersch,A

RTP reactor simulations.

(1995) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.8, No.4, pp 500-511.

Jacobsen,T

A multi-domain method for the simulation of pulverized coal fired multi burner furnaces.

Proceedings of the 2nd Colloquium on Process Simulation, Espoo, Finland, 6-8 June.

Ben-Zvi,R

Development of a PHOENICS-CHEMKIN interface for reactive flow calculations.

(1995) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.8, No.2, pp165-212.

Oksanen,A Karvinen,R

Combustion-generated NOx and coke in heavy residual fuel oil combustion.

Combustion Science and Technology 108, p345.

Herzau,J Kubrik,D wanninger,K Petrill,E Dene,C Facchiano,T Kosvic,T Rizk,T Hollinden,J

Methodology for the selection of low NOx firing alternatives.

(1995) American Power Conference.

Atkinson,G

A numerical model for predicting sediment exclusion at intakes.

(1995) Internal Report OD130, HR Wallingford.

Oksanen,A Maki-Mantila,E

Theoretical and experimental study of low-NOx gas burning.

(1995) 3rd European Conference on Industrial Furnaces and Boilers, Lisbon, Portugal April 18-21.

Oksanen,A maki-mantila,E

Use of PDF in modelling of nitric oxide formation in methane combustion.

(1995) 3rd International Conference on Combustion Technologies for a Clean Environment, Lisbon, Portugal, July 3-6.

Oksanen,A Maki-Mantila,E

Application of PDF in methane combustion.

(1995) European Mechanics Society, Statistical Properties of Turbulent Flames.

Grevskott,S Svendsen,HF

The effect of superficial gas velocity and initial turbulence level on radial phase distribution in bubble columns.

(1995) The AIChE Annual Meeting, Miami, November.

Frisching,U Bauckhage,K

Modelling the spray cone behavior in the metal spray forming process.

(1995) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.8, No.1, pp 68-90

Ilegbusi,OJ

The role of gas plumes in agitation and mass transfer in metallurgical systems.

Theologos,KN Markatos,NC Lygeros,A Nikou,ID

On the simulation of fluid-catalytic-cracking reactors

Youn,B Mills,AF

Cooling panel optimization for the active cooling system of a hypersonic aircraft.

(1995) The Journal of Thermophysics and Heat transfer, Vol.9, No. 1 pp 136-142

Lilja,L Rajainmaki,K

On the experimental and computational modelling at Outokumpu Research Oy.

(1995) Proceedings of the 2nd Colloquium of Process Simulation, Espoo, Finland, 6-8 June.

Varnas,SR Truelove,JS

Simulating radiative heat transfer in flash smelting furnaces.

(1995) Published in Applied mathematical Modelling Vol.19, pp 456-464.

Sannaes,BH Dudukovic,MP Svendsen,HF

Experimental and numerical investigation of solids dynamics in slurry bubble columns.

(1995) The AIChE Annual Meeting, Miami,November.

Pierrat,D Delaunay,D

Numerical simulation of the flow past a 2D model hill: Tests of eddy-viscosity models and numerical schemes.

(1995) Abstract for Euromech Colloquium 338 – Atmospheric Turbulence and Dispersion in Complex Terrain, Bologna, Italy September 4-6.

Karni,J Kribus,A Rubin,R Sagie,D Doron,p Fiterman,A

The DIAPR; A high pressure, high temperature solar receiver.

International Solar Energy Conference, Lahaina, Hawaii March 15, 2019

Waterson,NP Deconinck,H

A unified approach to the design and application of bounded higher-order convection schemes.

(1995) The 9th International Conference on Numerical Methods in Laminar and Turbulent Flow, Atlanta Georgia, 10-14 July.

Ilegbusi,OJ Iguchi,M Morita,Z

Numerical modelling of flow and heat transfer in gas-agitated reactor.

Vanormelingen<J van den Bulcke,E

A study of flow structure and dispersion in cylindrical furnaces.

(1995) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.8, No.1, pp 91-104.

Kravchik,T Sher,E Heywood,JB

From spark ignition to flame initiation.

(1995) Combustion Science and Technology 108, pp 1-30.

Delaunay,D Flori,J-P

Urban dispersion of a tracer gas from a vehicle tunnel: A numerical simulation compared with a field study.

(1995) Presented at Air Pollution 95, September 26-29, Porto-Carras, Greece.

Burman,J

Simulation of the boundary layer in a neutrally stratified atmosphere using PHOENICS.

(1995) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.8, No.2, pp 105-138.

Agranat,V

Mathematical modelling of forest fires using commercial computational fluid dynamics software package PHOENICS.

(1995) Proceedings of the International Conference on Forest fires; Initiation, spread and ecological impact, 24-30 July.

Lindholm,D

Application of a two-fluid model on the prediction of a bubble column produced by a broken subsea gas pipeline.

(1995) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.8, No.2, pp 139-164

Smith,AG Taylor,K Kompels,M Rooks,S Young,C

The use of PHOENICS in aircraft infra-red signature prediction.

(1995) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.7, No.4, pp 126-149.

1994

Baltas, N.D. and Spalding D Brian

MIMD PHOENICS: Porting a CFD Application to a Distributed Memory MIMD Computer.

(1994)Proceedings 1994 EUROSIM Conference: Massively Parallel Processing Applications & Development

Elsevier Science B.V., ISBN 0 444 81784 0, pp 715 – 725 and

The PHOENICS Journal of Computational Fluid Dynamics and its Applications. Vol 7. No. 3 pp 84-97

Spalding D Brian

Turbulence Modelling and High-Precision Computing.

(1994) Proceedings of International Hightech-Forum Basel, Basel World User Days CFD 1994

Second World Conference in Applied Computational Fluid Dynamics, pp 8.21 - 8.24

Spalding D Brian

Calculation of Turbulent Heat Transfer in “Cluttered Spaces.

(1994)Proceedings 10th International Heat Transfer Conference, Brighton

Poster Session & Abstract

Baltas, ND Spalding, DB

MIMD PHOENICS: Porting a computational fluid dynamics application to a distributed memory MIMD computer.

(1994) Proceedings Inter. Conf. Massively Parallel Processing 21-23 June at TU DELFT, The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.7, No.3, pp 84-97

Veneri, R., Parodi, P., Glynn, D., Taylor, K.

CFD modelling on fire detection and suppression in a columbus rack

(1994) *SAE Technical Papers*, .

McKinley, N.R., Kenny, R.G., Fleck, R.

CFD Prediction of a two-stroke, in-cylinder steady flow field an experimental validation

(1994) *SAE Technical Papers*, .

Mawhinney, R.N., Galea, E.R., Hoffmann, N., Patel, M.K.

Critical comparison of a phoenics based fire field model with experimental compartment fire data

(1994) *Journal of Fire Protection Engineering*, 6 (4), pp. 137-152.

Dargent, C., Dartus, D., George, J.

Numerical simulation of pulsating flow around a cube

(1994) *International Conference on Air Pollution - Proceedings*, 1, pp. 167-174.

Pellon, Christopher, Papamichael, Haris, Miaoulis, Ioannis N.

Numerical simulation of the air flow patterns in an optical fiber drawing furnace

(1994) *Proceedings of SPIE - The International Society for Optical Engineering*, 2287, pp. 22-32.

Nespor, V.

The wind effect on rain measurement: theoretical approach

(1994) *Annalen der Meteorologie*, 30, pp. 47-51.

Youn, B., Yuen, C., Mills, A.F.

Friction factor for flow in rectangular ducts with one side rib-roughened

(1994) *Journal of Fluids Engineering, Transactions of the ASME*, 116 (3), pp. 488-493.

Bui, R.T., Ouellet, R., Kocaefe, D.

A two-phase flow model of the stirring of Al-SiC composite melt

(1994) *Metallurgical and Materials Transactions B*, 25 (4), pp. 607-618.

Büchler, K., Althoff, K.H., Anton, G., Arends, J., Beulertz, W., Breuer, M., Detemple, P., Dutz, H., Kohlgarth, E., Krämer, D., Meyer, W., Nöldeke, G., Schneider, W., Thiel, W., Zucht, B.

Photo production of positive pions from hydrogen with PHOENICS at ELSA

(1994) *Nuclear Physics, Section A*, 570 (3-4), pp. 580-598.

Gopinath, A., Mills, A.F.

Convective heat transfer due to acoustic streaming across the ends of a Kundt tube

(1994) *Journal of Heat Transfer*, 116 (1), pp. 47-53.

Sarkar, T., Sayer, P.G., Fraser, S.M.

Feasibility study of laminar flow bodies in fully turbulent flow

(1994) *Proceedings of the International Offshore and Polar Engineering Conference*, 2, pp. 607-615.

Janssen, R.J.A., Bart, G.C.J., Cornelissen, M.C.M., Rabenberg, J.M.

Macro segregation in continuously cast steel billets and blooms

(1994) *Applied Scientific Research*, 52 (1), pp. 21-35.

Kravchik, T., Sher, E.

Numerical modeling of spark ignition and flame initiation in a quiescent methane-air mixture

(1994) *Combustion and Flame*, 99 (3-4), pp. 635-643.

Ahmad, R.A.

Space transportation system launch pad summer environmental effects
(1994) *Journal of thermophysics and heat transfer*, 8 (1), pp. 75-83.

Hughes, M., Pericleous, K.A., Cross, M.

The CFD analysis of simple parabolic and elliptic MHD flows
(1994) *Applied Mathematical Modelling*, 18 (3), pp. 150-155.

Pedersen, MK Anderson, P

Sedimentation i processtanke (Modelling of sedimentation in process tanks at Cheminova process plant) in Danish.
(1994) M.Sc Thesis, Department of Civil Engineering, Aalborg University, Denmark.

Poliakov, I Semin, V

An introduction into the method for implementing multi-block grids and /or grids with refinements in PHOENICS.
(1994) *The PHOENICS Journal of Computational Fluid Dynamics and its Applications*, Vol.7, No.2, pp 143-172.

Dahl, C Larsen, T Petersen, O

Numerical modeling and measurement in a test secondary setting tank.
(1994) *Proceedings, 17th IAWQ Biennial International Conference*, Budapest, Hungary. Also published in *Water Science Technology*, Vol. 30 No.2, pp 219-228. Pergamon Press.

Petersen, O Larsen, T

Dilution of dense bottom plumes in turbulent currents.
(1994) *Proceedings, 4th International Symposium on Statifield Flows*, Vol.3 Grenoble, France.

Petersen, O

Laboratory and numerical experiments on the dilution of buoyant surface plumes.
(1994) *Recent Research Advances in the Fluid Mechanics of Turbulent Jets and Plumes*, pp 223-235. Kluwer Academic Publishers, The Netherlands.

Petersen, O Krishnappen, BG

Measurements and analysis of flow characteristics in a rotating circular flumes.
(1994) *Journal of Hydrodynamic Engineering, IAHR*, Vol.32, No.4 pp 483-494.

Johansen, C Larsen, T Petersen, O

Experiments on erosion of mud from the Danish Walden Sea.
(1994) *Proceedings 4th Nearshore and Estuarine Cohesive Sediment Transport Conference*, Wallingford, UK.

Vanormelingen, J van den Bulck, E

Optimal air flow distribution in grate fired combustion systems.
(1994) *Proceedings, EURO THERM seminar no. 35, Compact Fired Heating Systems*, Leuven, May, pp26-27.

Fureby, C Moller, SI Lundgren, E

Large eddy simulation of combustion.
(1994) *Lund Report on Combustion Physics LRCP-13*, Lund Institute of Technology .

Karayannis, AN Markatos, NC

Mathematical modeling of heat exchangers.
(1994) Presented at the 10th International Heat Transfer Conference. Brighton August 14-18.

Klose, G

Investigation of the capabilities of standard and modified k-e models to predict the flow field behind two-dimensional multiple channels.

(1994) Report A5, Tampere University of Technology Department of Mechanical Engineering, Tampere, Finland.

Svensson, U

Flow, pressure and salinity distributions around planned experimental sites at the Aspo hard rock laboratory.

Progress Report 25-94-11, Aspo Hard Rock laboratory, Sweden.

Gustafsson, P

Measurements and magnetic flow control of magnetite ore flow and numerical simulations of granular flow.

(1994) Licentiate thesis, Lulea University of technology Division of Mining Engineering.

Kim, S Mills, AF

Low Reynolds number performance of a model perforated plate heat exchanger matrix.(1994) Proceedings, 10th International Heat Transfer Conference, Brighton, August.

Theologos, KN Markatos, NC

Modelling of vertical pneumatic-conveying hydrodynamics.

(1994) Applied Mathematical Modelling, Vol.18, pp 306-320, June.

Huang, PC Heberlein, J Pfender, E

A two-fluid model of turbulence for a thermal plasma jet.

(1994) Plasma Chemistry and Plasma Processing, Vol. 15, no. 1

Kribus, A Fiterman, A Doron, P Karni, J Agranat, V

Energy transport in DIAPR- type receiver.

(1994) 7th International Symposium on Solar Thermal Concentrating Technologies, Moscow, September.

Bui, RT Simard, G Charette, A Kocaefe, Y Perron, J

Mathematical modelling of the rotary coke calcining kiln.

(1994) Canadian Journal of Chemical Engineering, September.

Kocaefe, D Bui, RT provencher, R

One-phase model for stirring solid-liquid mixtures.

(1994) Symposium on Recent Developments in Light Metals, 33rd Conference of metallurgists, CIM, Toronto, pp 49-60.

Waterson, NP

Development of a bounded higher-order convection scheme for general industrial applications.

(1994) Project Report 1994-33, von Karman Institute for fluid dynamics, Belgium.

Ilegbusi, OJ Szekeley, J

Interfacial phenomena and computational fluid mechanics in materials processing.

(1994) ISIJ International, Vol.34, No. 12, pp 943-950.

Markatos, NC Kotsifaki, CA

One-dimensional, two-fluid modelling of turbulent, premixed flames.

(1994) Applied Mathematical Modelling, Vol.18, pp 646-657.

Preuer, A

Numerical investigation of the gas bubble driven steel flow and the formation of the free bath surface in a steel ladle.

(1994) The PHOENICS Journal of Computational Fluid Dynamics and Its Applications, Vol. 7, No. 2, pp 107-123.

Young, C

Interfacing using the GENIE system.

(1994) Presented at the Warwick User Conference, 16-18 November. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 8, No. 1, 1995 pp1-7.

Van den Berghe, CS

PHOENICS SIMD parallelization – DAP PHOENICS.

(1994) Presented at the Warwick User Conference, 16-18 November.

Karayannis, A

New PHOENICS-CAD interface.

(1994) Presented at the Warwick User Conference, 16-18 November.

Jacobsen, T

A multi domain method for PHOENICS.

(1994) Presented at the Warwick User Conference, 16-18 November. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 8, No. 1, 1995 pp8-28

Znaty, E Lequette, L Steinfield, P

Theseus: a high functionality CFD code with unstructured grids.

(1994) Presented at the Warwick User Conference, 16-18 November.

Gadepalli, P Rahman, MM

Computation of three-dimensional mixed convective boundary layer flow.

(1994) Proceedings of NASA sixth Annual Thermal and Fluid Analysis Workshop, Cleveland, Ohio, August 15-19.

Thomson, A Fraser, CJ

Taguchi methods in CFD.

(1994) Presented at the Warwick User Conference 16-18 November.

Gouvalias, GS Markatos, NC

Mathematical modelling of heat and mass transfer in packed bed absorbers/regenerators.

(1994) Published in the AIChE Journal, November 1993, Vol. 39, No. 11

Ranade, VV

Simulation of flow mal-distribution in a fixed bed reactor using PHOENICS.

(1994) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 7, No. 3 pp 59-72.

Sheng, YY Irons, GA

Mathematical modelling of flow and heat transfer in a physical model of submerged arc electric smelting with gas injection.

(1994) The PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol. 7, No. 3, pp 37-58

Montenegro, HS Choucino, MA

Thermal dissipation in a natural basin.

(1994) The PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol. 7, No. 3, pp 14-36

Buxton, A Barazzi, GS Belyavin, AJ Davies, TW
A CFD study of heat transfer mechanisms in liquid cooled garments.
(1994) Presented at Warwick User Conference 16-18 November

Poliakov, I Semin, V
An introduction into the method for implementing multi-block grids and/or grids with refinements in PHOENICS v1.0
(1994) CHAM Technical Report TR401. The PHOENICS Journal of Computational; Fluid Dynamics and its Applications Vol. 7, No.2, pp 143-172

Panagopoulos, J Karayannis, A Markatos, NC
A new approach to the modelling of environmental flows and pollutants dispersion in urban areas. The case of the Athens underground.
(1994) Presented at the Warwick User Conference 16-18 November. The PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol.7, No. 4, pp 114-125

Baltas, ND van den Berghe, CS
Comparison of the porting of a Computational Fluid Dynamics Application to SIMD and MIMD Computers(1994)
Proceedings Inter. Conf. Massively Parallel Processing 21-23 June at TU DELFT

Van den Berghe, CS Baltas, ND
DAP PHOENICS: Porting a CFD code to a SIMD Computer.
(1994) Proceedings Int. Conf.. Massively Parallel Processing 21-23 June at TU Delft. Also published in: Simulation Practice and Theory, Elsevier 1995.

Collado, FJ Montenegro, HS Choucino, MA
CFD simulation of in-furnace dry sorbent injection burning low sulphur content coals.
Presented at the International Conference on Carbon called Carbon 94 July in Granada, Spain The PHOENICS Journal of Fluid Dynamics and its Applications, Vol.7, No.2, pp 131-142.

Taskinen, P
Penetration of methane and propane spray as function of the time in the axisymmetric chamber.
(1994) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.7, No.2, pp 124-130.

Declercq, J
Studie van het stromingspatroon in een houtverbrandingsketel. (simulation of the fluid flow in a cold flow model of a wood combustion furnace)
Presented at the PHOENICS UK User Meeting, Wimbledon, London May 18th, 1993

Oksanen, A
Combustion generated NOx and coke in heavy residual fuel oil combustion.
2nd International Conference on Combustion Technologies for a Clean Environment, Lisbon, Portugal July 19-22 1993

Oksanen, A
Numerical modelling of combustion processes.
Helsinki University of Technology, Otaniemi, Finland, December 9th 1993

Siiskonen, P Hyoty, P Sutinen, A Karvinen, R
A numerical study of char bed burning rates.
Proc. TAPPI 1993 Engineering Conference, pp 287-292

Poliakov, I Semin, V

Development and evaluation of new linear equation solvers for PHOENICS.

(1994) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.7, No. 1, pp 34-57

Hu Shih, C Fan, NW Hu Yie-Zu, R

Optimization of the display case design using numerical models.

(1994) 9th National Conference on Mechanical Engineering CSME, Koatsiung, November 1992, ROC. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.7, No.1 pp 1-7

Fung, MTR Hornby, RP

A PHOENICS Model for the prediction of the discharge time of boric acid from the emergency boration system of sizewell "B" PWR.(1994) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.7, No.3 pp 1-13.

Savvas, TA Markatos, NC Papaspyrides, CD

On the flow of non-Newtonian polymer solutions.

(1994) Printed in Appl. Math. Modeling Vol. 18 January.

Hornby, RP Fung, MTR Hulme, G

A PHOENICS model for the assessment of moisture transport during decommissioning of engineering plant.

(1994) Presented at the Warwick User Conference 16-18 November. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.7, No.4 pp 150-164.

Lakehal, D Barre, C Sacre, C

International symposium on turbulence, heat and mass transfer simulation of turbulent flows around 3d structures with complex geometries.

(1994) Presented at the Warwick Users Conference 16-18 November

Delaunay, D Lakehal, D Pierrat, D

Numerical approach for wind loads prediction on building and structures.

(1994) Proceedings of the Wing Engineering Conference, Guernsey 20-24 September 1993.

Andreopoulos, AG Karayannis, AN Markatos, NC

Experimental and computational investigation of ventilation effectiveness in an industrial building.

(1994) Published in the Institution of Chemical Engineering

Markatos, NC Theologos, KN

Modelling of vertical pneumatic-conveying hydrodynamics.

Published in Appl. Math Modeling, Vol. 18 June.

Ludwig, JC Poliakov, I

Multiblock and finegrid embedding method in PHOENICS 2.1.

(1994) Presented at the Warwick User Conference 16-18 November.

Meszana, ZG Johnson, AF

A first attempt to calculate the spatial distribution of the dispersity index of a polymer in a polymerization reactor using PHOENICS.

(1994) Presented at the Warwick User Conference 16-18 November. The PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol.8, No.1 1995 pp 55-66

Collado, FJ

Separation of chemical species in PHOENICS: application to the single-stage gaseous permeation process.

(1994) The PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol.7, No.3, pp 73-83.

Heritage, JR

PHOENICS-CVD: a code for the design and development of chemical vapour deposition equipment and processes.

(1994) Presented at the Warwick User Conference 16-18 November. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 7 No.4 pp 165-180.

Gevers, C Gardin, P Galpin, JM Regnier, MC

Electromagnetic brake influence on molten steel flow and inclusion behavior in a continuous casting mould.

(1994) Presented at the Warwick User Conference 16-18 November.

Haidar, NIA

Computational modelling of turbulent flow across cavities presented on aircraft wings.

(1994) Presented at the Warwick User Conference 16-18 November. The PHOENICS Journal of Computational Fluid Dynamics and its Applications vol.7, No.4, pp 98-113

Waddington, M Sanderson, B Rao, HV Weston, W

The use of computational fluid dynamics in the development of a new range of steam safety valves.

(1994) Presented at the Warwick User Conference 16-18. The PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol.8., No.1 1995 pp 51-54

Parodi, P Veneri, R Spazio, A, Glynn, DR Taylor, K

CFD analysis of the fire detection and suppression in a Columbus rack.

(1994) Presented at the Warwick User Conference 16-18 November. The PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol.7, No.4, pp 181-190

Markatos, NC

Mathematical modelling of single and two phase flow problems in the process industries.

(1994) Published in Revue de Institut Francais de Petrole, Vol.48, No.6, November 1993.

Owen, BJ

The use of PHOENICS within Strachen and Henshaw.

(1994) Presented at the Warwick User Conference 16-18 November.

Winwood, R Benstead, R Edward R

Computer simulation of thermal storage in hollow-core slabs.

(1994) Presented at the Warwick User Conference 16-18 November.

Yang, Y Jokilaakso, A Ahokainen, T Teppo, O

Gas flow and heat transfer in a waste-heat boiler.

(1994) Presented at the Warwick User Conference 16-18 November.

Eichert, P Imbert, M Coddet, C

Calculations of a plasma jet using PHOENICS.

(1994) Presented at the Warwick User Conference 16-18 November.

The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.8, No. 1 pp 29-50

Spalding, DB Malin, MR

New physical models in PHOENICS 2.0, 2.1 & 2.2 (turbulence models, IPSA improvements, surface to surface radiation, other miscellaneous models and improvements).

(1994) Presented at the warwick User Conference 16-18 November.

1993

Beale, S.B. and Spalding D Brian

Unsteady Flow in a Rotated Square Tube Bank.

(1993) Proceedings of 8th Intl. Conference on Numerical Methods in Laminar & Turbulent Flow, Pineridge Press, Swansea, Vol 8 Part 1. pp 827-838

Beale, S.B. and Spalding D Brian

Transient Fluid Flow and Heat Transfer in an in-line Tube Bank.

(1993) IMechE Proceedings "Engineering Applications of Computational Fluid Dynamics" pp 119-132.

Breen, B.P., Urich, J.A., Smith, B.L., Kramer, E.D. and Spalding D Brian

Development of a Computer Model for Evaluation of NOx Control Alternatives.

(1993) Published by ASME in Combustion Modelling Co-firing & NOx control. Fact Volume 17, pp 109-113.

Breen, Bernard P., Urich, Joseph A., Spalding, D.B., Smith, Bill L., Kramer, Edward D.

Development of a computer model for evaluation of NOx control alternatives

(1993) *American Society of Mechanical Engineers, Fuels and Combustion Technologies Division (Publication) FACT*, 17, pp. 109-113.

Spalding, DB Beale, SB

Transient fluid flow and heat transfer in an in-line tube bank.

(1993) Proceedings of IMechE Conference, Engineering Applications of Computational Fluid Dynamics Conference, pp 119-132.

Beale, Sb Spalding, DB

Unsteady flow in a rotated square tube bank.

(1993) 8th International Conference on Numerical Methods in La Minar Turbulent Flow, Swansea 19-23 July.

van der Kooij, J., Wan, J.W.

Evaluation of air quality and thermal comfort in a coach

(1993) *International Journal of Vehicle Design*, 14 (5-6), pp. 530-538.

Nam, Soonil

Numerical simulation of actual delivered density of sprinkler spray through fire plumes

(1993) *American Society of Mechanical Engineers, Fluids Engineering Division (Publication) FED*, 178, pp. 57-65.

Frost, R.C., Halliday, J., Dee, A.S.

Continuous consolidation of sludge in large scale gravity thickeners

(1993) *Water Science and Technology*, 28 (1), pp. 77-86.

Malvos, H., Ricard, A., Szekely, J., Michel, H., Gantois, M., Ablitzer, D.

Modeling of a microwave postdischarge nitriding reactor

(1993) *Surface and Coatings Technology*, 59 (1-3), pp. 59-66.

Youn, B., Mills, A.F.

Flow of supercritical hydrogen in a uniformly heated circular tube

(1993) *Numerical Heat Transfer; Part A: Applications*, 24 (1), pp. 1-24.

Norton, O.P., Skeggs, A., Bushijon, K.V.

Numerical flow simulation in the slagging stage of an MHD coal combustor
(1993) *Magnitnaya Gidrodinamika*, 29 (3), pp. 69-75.

Anon

Software helps water separator design at Domnick Hunter
(1993) *Filtration and Separation*, 30 (2), p. 117.

du Preez, A.F., Kröger, D.G.

Effect of wind on performance of a dry-cooling tower
(1993) *Heat Recovery Systems and CHP*, 13 (2), pp. 139-146.

Fraser, Simon M., Yi, Zhang

Interface between experimental data and CFD simulated data
(1993) *Proceedings of SPIE - The International Society for Optical Engineering*, 2052, pp. 587-594.

Fraser, S.M., Khater, R.

LDA measurements and CFD simulation of an annular impinging jet
(1993) *Proceedings of SPIE - The International Society for Optical Engineering*, 2052, pp. 579-586.

Baskaya, S., Gilchrist, A., Fraser, S.M.

LDA measurements and numerical simulation of the induced flow through a rectangular chamber containing a vertical cylindrical heat source
(1993) *Proceedings of SPIE - The International Society for Optical Engineering*, 2052, pp. 571-578.

Lobo, M., Elder, R.L.

Modeling of flow in the volute and vanes of a high pressure radial inflow turbine
(1993) *American Society of Mechanical Engineers (Paper)*, pp. 1-12.

Segatz, M., Vogelsang, D., Droste, C., Baekler, P.

Modeling of transient magneto-hydrodynamic phenomena in Hall-Heroult cells
(1993) *Light Metals: Proceedings of Sessions, TMS Annual Meeting (Warrendale, Pennsylvania)*, pp. 361-368.

Ouellet, R., Bui, R.T., Provencher, R., Bourgeois, T.

Modeling the stirring of Al-SiC composites
(1993) pp. 163-175.

Nam, S., Bill Jr., R.G.

Numerical simulation of thermal plumes
(1993) *Fire Safety Journal*, 21 (3), pp. 231-256.

Smith, T.

Software helps water separator design at domnick hunter
(1993) *Filtration & Separation*, 30 (2), p. 117.

Narabayashi, Tadashi, Miyano, Hiroshi, Komita, Hideo, Iikura, Takahiko, Shiina, Koji, Kato, Hiroyuki, Watanabe, Akio, Takahashi, Yuji

Study on temperature fluctuation mechanisms in an annulus gap between PLR pump shaft and casing cover
(1993) *Proceedings of the 2nd ASME-JSME Nuclear Engineering Joint Conference*, pp. 207-213.

Lobo, M., Elder, R.L.

The modelling of flow in the volute and vanes of a high pressure radial inflow turbine
(1993) *ASME 1993 International Gas Turbine and Aeroengine Congress and Exposition, GT 1993*, 1.

Agranat, V Fiterman, A Luntz, A

PHOENICS simulation of flow and heat transfer in solar receiver chamber.

(1993) Technical Report, Issumit Temed Ltd, Israel.

Ni, W Kawall, JG Keffer, JF

On the velocity and temperature fields of a heated turbulent jet in a cross-flow.

(1993) Dept. of Mechanical Engineering, University of Toronto, Ontario, Canada.

Jal.EN Tinoco, H

Mathematical modeling of industrial power condensers with an application to droplet erosion.

(1993) Internal Report: (Jal) CHAM (Tinco) Vattenfall Utveckling AB, Sweden.

Marchin, F Brion, L

Laser et modelisation; des outils nouveaux pour le perfectionnement des bruleurs domestiques.

(1993) Revue G, rale de thermique, 3 rue Henri-Heine, 75016 No. 374, February.

Alizadadeh, S Moss, JB

Flowfield prediction of NO, and smoke production in aircraft engines.

(1993) 81st AGARD propulsion & Energetics Panel Symposium. "Fuels & Combustion Technology for Advanced Aircraft Engines" Colleferro, Italy May.

Hura, HS Breen, BP

A chemical kinetic investigation of nitric oxide reduction by natural gas reburning in pulverized coal fired boilers.

(1993) Submitted to the Combustion Science & technology Conference Jan.

Grundberg, S

Simulation of the surface layer of a stratified atmosphere using PHOENICS.

The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.7, No.1, 1994 pp 8-33.

Garza, RG

***A mathematical model of the high velocity oxygen fuel thermal spraying gun.

(1993) Submitted to the Department of material Science and Engineering in partial fulfillment for the Massachusetts Inst. Of Technology, USA.

Clarkson, RJ Benjamin, SF Jasper, TS Girgis, NS

An integrated computational model for the optimization of monolith catalytic converters.(1993) Presented at the joint IMechE/SAE Vehicle Thermal Management Systems Conference, Columbus, Ohio, March .

Critten, DL

Some new ideas about turbulence.

Speculation in Science and Technology, 1993 Vol.16, No.2 page 93

Jaaskelainen, K Vuorio, P

Computational analysis of coal combustion in boiler furnaces.

(1993) Swedish-Finish Flame days 1943, Gothenburg, September 7-8.

Green, SR Clothier, BE

Simulating water and chemical movement into unsaturated soils.

(1993) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.7, No.1, 1994 pp76-92.

Triboix, A Lenant, Y

Une method de prise en compte des echanges radiatifs entre parois au sein d'un code de calcul de dynamique des fluids. Application a un nouveau procede de climatisation: "plafond diffusant"
(1993) Sent to "Revue generale Thermique"

Dahl. C

Numerical modelling of flow and settling in secondary settling tanks.
Ph.D Thesis, Department of Civil Engineering, Aalborg University, Denmark.

Andersson, SL Schoon, NH

Methods to increase the efficiency of a metallic monolithic catalyst.
(1993) American Chemical Society.

Turrillas, X Tarling, S Barnes, P Steiner, HJ Fueyo, N

A new experimental set up for power x-ray diffraction at high temperature.
(1993) Internal Report. In order; Industrial Materials Group, Dept of Materials, I.C.S.T.M, CHAM.

Barron, RM An, FD Zhang, S

Survey of the stream function as a coordinate method in CFD.
(1993) Presented at the Proceedings Conference of the CFD Society of Canada, Montreal, June 14-15, pp 325-336

Fraser, Sm Yi, Z

An interface between experimental data and CFD simulated data.
(1993) Published in the Laser Anemometry Advances and Applications Journal SPIE Vol. 2052, pp 587-594.

Kokkalis, A Wardle, MH Wilson, FT

PHOENICS applications at Westland Helicopters Ltd.
(1993) Presented at the PHOENICS UK User Meeting, Wimbledon, London May 18th.

Scanlon, TJ Carey, C Fraser, SM

SUCCA3D an alternative scheme to reduce false diffusion in three-dimensional flows.
(1993) Published in the Proc. Institute. Mechanical Engineers Journal, Vol.207, June, pp 307-313.

Carey, C Scanlon, TJ Fraser, SM

SUCCA an alternative scheme to reduce the effects of multidimensional false diffusion.
(1993) Published in the Appl. Math Modeling Journal, May. Vol17, pp 263-270.

Chang, BH Mills, AF

Turbulent flow in a channel with transverse rib heat transfer augmentation.
(1993) Published in The International Journal of heat and mass Transfer vol.36. No.6, pp1459-1469

Chang, BH Mills, AF

Computation of heat transfer from impinging turbulent jets.
(1993) The 6th International Symposium on Transport Phenomena in Thermal Engineering, Seoul, Korea May 9-13.

Karagiozis, Achilles, N Hamlin, T

Application of the wallfem computer model for hygrothermal analysis of high rise construction basement.
(1993) Presented at the Proceedings Conference of the CFD Society of Canada, Monteval, June 14-15, pp 205-220.

Neve, RS

Contaminant concentration on pipe walls following radial jet injection: a cfd approach.

(1993) Internal Report. Thermo-Fluids Engineering Research Centre. Dept. of Mechanical Engineering/Aeronautics. City University of London.

Ashar, M Rabi, Baliga, BR

Comparative evaluation of six interpolation schemes used in finite-volume discretizations of the convection diffusion equations.

Presented at the Proceedings Conference of the CFD society of Canada, Montreal, June 14-15. pp 301-312

Fraser, SM Zhang, T

Improved k-e modeling of impeller flow performance of a mixed-flow pump under off-design operating.

(1993) Published in the Proc. Inst. Mechanical Engineers Journal Vol.207, June, pp219-229

Vallet, MG

Anisotropic adaptive meshes for FEM.

(1993) Presented at the Proceedings Conference of the CFD Society of Canada, Montreal, June 14-15, pp 313-324

Banas, AO Carver, MB Whitehead, CA

Numerical studies of flow and heat transfer around candu fuel-element bearing pads.

Presented at the Proceedings Conference of the CFD Society of Canada, Montreal, June 14-15, pp 363-380

Duursma, RPJ

Application of the scalar equation method to mould filling.

(1993) Summary of a presentation at the 5th International PHOENICS User Conference, September 21-25, Nice, France. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.6, No.4, pp 477-480 & Ji-Jvi.

Mendorca, FG Bretton, AS

Simulation of in-cylinder fuel mixing in a large spark ignition lean burn engine.

(1993) Experimental & Predictive methods in Engine Research & Development. IMechE Ref: IMechE 1993/10.

Drew, BC

Flow simulations using an unstructured and solution adaptive grid.

Presented at the Proceedings Conference of the CFD Society of Canada, Montreal, June 14-15, pp 337-350

Bauwens, L

Flame sheet models for reacting flows.

Presented at the Proceedings Conference of the CFD Society of Canada, Montreal, June 14-15, pp 351-362.

Huang, PC

A Turbulent Swirling ARC Model and a Two-Fluid Turbulence Model for Thermal Plasma Sprays.

A Thesis submitted to the Faculty board of the Graduate School of the University of Minnesota, in partial fulfillment of the requirements for the Degree of Philosophy.

Fleck, B Dumas, G

Direct numerical simulation of centrifugal convection flows.

Presented at the Proceedings Conference of the CFD Society of Canada, Montreal, June 14-15, pp 401-412.

Drake, S White, M Felthouse, A Fanderton, C Glanfield, S

Computational analysis of air and heat flow in electronic systems.

Internal Report. In Order: CHAM, Motorola, Thorn Automation, Northern Telecom Europe

Lin, S Bennett, A Jonasson, K McCracken, T
CFD simulation of an industrial gas scrubber.
Presented at the Proceedings Conference of the CFD Society of Canada, Montreal, June 14-15, pp381-392.

He, P Salcudean, M
Computation of film cooling of turbine blades.
Presented at the Proceedings Conference of the CFD Society of Canada, Montreal, June 14-15, pp 393-400

P.G Jonsson, R.C Westhoff & J.Szekely
Arc characteristics in gasmetal arc welding of aluminum using argon as the shielding gas.
(1993) Journal of Applied Physics AIP Publishing

1992

Spalding D Brian
The Expert-System CFD Code; Problems and Partial Solutions”, Proc International Hightech-Forum.
(1992) First World Conference in Applied Computational Fluid Dynamics, Basel World User Days CFD, p.23.1.

Kjaldman, L.
Numerical flow simulation of dust deflagrations.
(1992), Powder Technology, Vol.71, pp. 163–169.

Hulme, G., Curzon, A.F.
Analysis of fast reactor steam generator performance
(1992) *Institution of Chemical Engineers Symposium Series*, 1 (129), pp. 531-537.

Ostberg, J., Johansson, N.
Mathematical modeling of flow patterns
(1992) pp. 153-164.

Dartus, D., Le Guennec, B.
Numerical modeling of flow in a storage tank
(1992) pp. 201-208.

Ratky, I.
Turbulence in the light of theory and practice [Turbulencia az elmelet es a gyakorlat tukreben]
(1992) *Vizugyi Kozlemenyek (Budapest)*, 74 (4), pp. 399-417.

Detemple, P., Althoff, K.H., Anton, G., Arends, J., Bock, A., Breuer, M., Büchler, K., Nöldeke, G., Serwazi, M., Schneider, W., Urban, D., Zucht, B.
The photon tagging system of the PHOENICS-experiment at ELSA
(1992) *Nuclear Inst. and Methods in Physics Research, A*, 321 (3), pp. 479-488.

Schwarz, M.P.
Regional PHOENICS user conference. Melbourne, Australia, December 6, 1991
(1992) *Minerals Engineering*, 5 (6), p. 721.

Haghighat, F., Jiang, Z., Wang, J.C.Y., Allard, F.
Air movement in buildings using computational fluid dynamics
(1992) *Journal of Solar Energy Engineering, Transactions of the ASME*, 114 (2), pp. 84-92.

Ling, E.N., Metcalfe, E., Nadarajan, S., Patel, M.K.

A numerical simulation of the NBS cup furnace toxicity test
(1992) *Fire Safety Journal*, 19 (4), pp. 279-293.

Kocaeffe, Y.S., Simard, G., Bui, R.T., Charette, A., Potocnik, V., Perron, J.

Analyzing the heat transfer in a coke calcining kiln
(1992) *Light Metals 1992*, pp. 627-632.

Richards, P.J., Hoxey, R.P.

Computational and wind tunnel modelling of mean wind loads on the Silsoe structures building
(1992) *Journal of Wind Engineering and Industrial Aerodynamics*, 43 (1-3), pp. 1641-1652.

Nadarajah, A., Rosenberger, F., Alexander, J.I.D.

Effects of buoyancy-driven flow and thermal boundary conditions on physical vapor transport
(1992) *Journal of Crystal Growth*, 118 (1-2), pp. 49-59.

Yavuz, T.

Effects of turbulence modellings on prediction of flow and heat transfer characteristics for confined jet impingement
(1992) *DOGA, TURKISH JOURNAL OF ENGINEERING & ENVIRONMENTAL SCIENCES*, 16 (3), pp. 177-192.

Austin, P.R., Camplin, J.M., Herbertson, J., Taggart, I.J.

Mathematical modelling of thermal stratification and drainage of steel ladles
(1992) *ISIJ International*, 32 (2), pp. 196-202.

Bhattacharyya, D., Richards, P.J., Somashekar, A.A.

Modelling of metal extrusion using the phoenics package
(1992) *Journal of Materials Processing Tech.*, 35 (1), pp. 93-111.

Schreiber, L., Legras, M.

Navier-stokes computation on a pivoting doors thrust reverser and comparison with tests
(1992) *ASME 1992 International Gas Turbine and Aeroengine Congress and Exposition, GT 1992*, 2, .

Fagley Jr., John C.

Simulation of transport in laminar, tubular reactors and application to ethane pyrolysis
(1992) *Industrial and Engineering Chemistry Research*, 31 (1), pp. 58-69.

Petersen, O

Applications of turbulence models for transport of dissolved pollutants and particles.
(1992) Dissertation, Department of Civil Engineering, Aalborg University, Denmark.

Jacobs, GP Barner, HE Bourhis, AL

Utilization of PHOENICS in the design of the modar scwo reactor.
(1992) Presented in session "Reactions in Supercritical Fluids", 1992 Annual AIChE Meeting, Miami Beach, Florida, November 1-6.

Bradley, D Lau, AKC Lawes, M

Flame stretch rate as a determinate of turbulent burning velocity.

Hardie, GJ Cross, M Batterham, RJ Davis, MP Schwartz, MP

The role of mathematical modelling in the development of the Hismelt process.

(1992) 10th Process Technology Conference Proceedings, ISS/AIME.

Hernandez, J Crespo, A

Numerical modelization of horizontal turbulent jet diffusion flames.

(1992) 5th International PUC Conference, Nice. Published in the PHOENICS Journal of Computational Fluid Dynamics and its Applications, Conference, pre-priny papers, Vol.6, No.2, pp 205-221 & Ei-Exiv.

Petersen, O

Applications of turbulence models for transport of dissolved pollutants and particles.

(1992) Series paper 4, Department of Civil Engineering, Aalborg University, Denmark, July

Fahlgren, M Hahn, T

Numerical simulations and LDA measurements of Newtonian and non-Newtonian jet flow.

(1992) Proceddings, The 7th European Congress on Mixing, Brugge, 18-20 September 1991, The Royal Flamish Society of Engineering, The Netherlands.

Castillejos, AH Acosta, FA Almanza, JM

Metal filtration with a new ceramic porous medium: CEFILB

(1992) In "Light Metals 1992", ed. Euel R Cutshall.

Zhurbrin, S Yakushin, A

Calculations of steady three-dimensional turbulent flow and heat transfer in model reservoir.

(1992) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.5, No.4, pp 381-420.

Katayama, T Hashimoto, R Tanigutchi, H Kudo, K

Development of a new method for coupled heat transfer and chemical reaction simulation in tubular type steam reforming furnace.

(1992) ICHMT 2nd International Forum on Expert Systems and Computer Simulation in Energy Engineering, University of Erlangen, 17-20 March.

Chauvot, JF

CFD with PHOENICS at Aerospatiale, Espace and Defense.

Presented at the 5th International PHOENICS Conference, Nice, September 1992. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.6, No.3, pp 309-324.

Smith, AG Ayris, JN Beasley, J

The modelling of blast wave propagation using PHOENICS.

(1992) Published in the Proceedings of the 5th International PHOENICS Conference, Nice and in The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.6, No.3, pp 325-341 & Hi-Hx.

Bourabaa, N Desmet, B

Numerical and experimental study of gas mixing.

(1992) Published in the proceedings of the 5th International PHOENICS Conference, Nice, and in the PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.6, No.2, pp 191-204 & Di-DVI

Yuan, X Chen, Q Mosr, A Suter, P

Numerical simulation of air flows in gymnasia

(1992) Indoor Environ. 1992 1, pp224-233

Panizzola, M Pugliese, V

Computational fluid dynamics applications to spacecraft thermal design.
(1992) ATTI 10th National Congress on Heat Transmission 25-27 June, University of Genoa.

Adair, D Malin, MR Younis, BA
Calculations of the concentration field of a turbulent methane jet.
(1992) Appl. Math. Modelling 1992 vol. 16th September. Published by Butterworth-Heinemann.

Hornby, RP
A generalized PHOENICS model for the prediction of damaged fuel pin temperatures in an advanced gas cooled reactor.
(1992) Published in the proceedings of the 5th International PHOENICS Conference, Nice, and in the PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.6, No.1, pp 1-55 & Ai – Axxix 1993

Ronnquist, G Sunden, B
Numerical investigation of a boron dilution process in a PWR-reactor.
(1992) Published in the proceedings of the 5th International PHOENICS Conference, Nice, and in the PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.6, No.1, pp 56-80, 1993.

Hemstrom, B Lunstrom, A
Numerical modelling of the mixing process in the downcomer of a BWR.
(1992) Published in the proceedings of the 5th International PHOENICS Conference, Nice, and in the PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.6, No.1, pp 81-99.

Chen, Q Jiang, Z
Significant questions in predicting room air motion.
(1992) ASHRAE vol.98 Part 1

Raupenstrauch, H Posch, M Staudinger, G
Drying of a packed bed of solid fuel particles.
(1992) Published in the proceedings of the 5th International PHOENICS Conference, Nice, and in the PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.6, No.4, pp 346-367, 1993

Chen, Q Moser, A Suter, P
A numerical study of indoor air quality and thermal comfort under six kinds of air diffusion.
ASHRAE vol.98, Part 1

Smith, AG
The prediction of air breathing engine and rocket motor exhaust plume flowfields and infra-red signatures.
(1992) Published in the proceedings of the 5th International PHOENICS Conference, Nice, and in the PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.6, No.4, pp 427-451, 1993

Kravchik Sher, E
A PHOENICS model of spark ignition development and flame propagation in internal combustion engine.
(1992) Published in the proceedings of the 5th International PHOENICS Conference, Nice, and in the PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.6, No.2, pp 118-143 & Bi-BXVIII, 1993.

Pavitsky, NI Yakushin, AA Zhubrin, SV
Vehicular exhaust dispersion around a group of buildings.(1992) Published in the proceedings of the 5th International PHOENICS Conference, Nice, and in the PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.6, No.3, pp 270-285 & Gi-Gx, 1993

Janssen, G lamers, A Jansen, J

A numerical parameter study for a turbulent backward facing step problems.

(1992) Published in the proceedings of the 5th International PHOENICS Conference, Nice, and in the PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.6, No.2, pp 144-154, 1993

Mege, P Ferschneider, G

Numerical modelling of turbulent gas-solid flow.

(1992) Published in the proceedings of the 5th International PHOENICS Conference, Nice, and in the PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.6, No.2, pp 155-169, 1993.

Hernandez, J Zamora, B Campo, A

Natural convection laminar flows in arrays of vertical parallel plates.

(1992) Published in the proceedings of the 5th International PHOENICS Conference, Nice, and in the PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.6, No.2, pp 171-190, 1993.

Kenbar, AMA Beltagui, SA Maccallum, NRL

Modelling the combustion aerodynamics for a peripheral fuel-injection flame.

(1992) Published in the proceedings of the 5th International PHOENICS Conference, Nice, and in the PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.6, No.3, pp 286-308, 1993.

Kjaldman, L Jacobson, T

A PHOENICS based computation environment for boiler furnace simulations.

(1992) Published in the proceedings of the 5th International PHOENICS Conference, Nice, and in the PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.6, No.1, pp 100-117, 1993.

Mariotti, G

Numerical simulation of the flow in the ENEL-CRTN transonic wind tunnel and comparison against experimental measurements.

(1992) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.5, No.1 pp40-52

Uhlenwinkel, V Bauckhage, K Fritsching, U

Investigations on the atomization of molten metals: the coaxial jet and the gas flow in the nozzle vicinity.

(1992) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.5, No.1, pp 81-98.

Boparai, MK

Personal experiences in the use of PHOENICS.

(1992) CFD Community Club Steering Group Notes, Rutherford Appleton Laboratory,.

Amer, AA Jurban, BA Hamdan, MA

Comparison on different two-equation turbulence models for prediction of film cooling from two rows of holes.

(1992) Numerical Heat Transfer Part A, Vol.21, pp 143-162. Published by Hemisphere Publishing Corporation.

Theologos, KN Markatos, NC

Modelling of flow and heat transfer in fluidized catalytic cracking riser-type reactors.

(1992) Trans I Chem E Vol.70, Part A May.

Turkoglu, H Farouk, B

Effects of gas injection velocity on mixing and heat transfer in molten steel baths.

(1992) Numerical Heat Transfer Part A Vol.21, pp 377-399.

Kim, JY Lai MC Li, P, Chui, G

Modeling diffuser-monolith flows and their implications for automotive catalytic converter design.

The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol5, No.2 pp 101-133.

Youn, B Mills, AF

Variable property flow in rectangular ducts with repeated rectangular rib roughness.

(1992) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.5, No.2, pp175-232.

Chen, Q Dalhuijsen, AJ

A design tool for optimal thermal comfort and air quality in a passenger car.

(1992) Proc. 2nd Int. Conference on Vehicle Comfort, October 14-16 Bologna, Italy.

Best, T Duffield, JS

Modelling of non-equilibrium two-phase venting from chemical reactors.

(1992) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.5, No.1, pp 1-39 Published by CHAM.

Maeda, T

Addendum PHOENICS-MHD programmers manual

(1992) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.5, No.3, pp 313-323.

Caprino, G Traverso, A

Progress in Multiblock technique for flow calculation around ship hulls with PHOENICS.

(1992) The PHOENICS Journal of Computational Fluid Dynamics and Its Applications, Vol.5, No.1, pp 53-80.

Verlaan, CCJ van der Aart, MF de Graauw, J

Evaluation of the accuracy of the k-epsilon model for rectangular channel flow.

(1992) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.5, No.3, pp 281-293.

Brunet, M Lise, J

A moving mesh model for the prediction of hydrodynamic viscous force acting on oscillating bodies (eg cylinders).

(1992) Published in the proceedings of the 5th International PHOENICS Conference, Nice, and in the PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.6, No.4, pp 385-407.

Green, SR

Modelling turbulent air flow in a stand of widely-spaced trees.

(1992) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.5, No.3, pp 294-312.

Maeda, T

Enthalpy methods by impact scheme for solidification simulate

Carey, C Scanlon, TJ Fraser, SM

SUCCA a new scheme to reduce the effects of multi-dimensional false diffusion.

(1992) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.5, No.2, pp 134-174.

Zuba, GH

Analysing the transport and diffusion of pollutants from industrial and urban sources.

Presented at the Basel CFD Conference 1992

Parson, IM Porter KE

Gas flow patterns in packed beds: a computational fluid dynamics model for wholly packed domains.(1992) Gas Separation and Purification 1992, Vol.6, No.4

Leitner, A

Flow computation for high altitude simulation test facility.
(1992) Heat and mass Transfer Group, RAFAEL Haifa, Israel.

Gopinath, A Mills, AF
Effects of variable fluid properties and side wall conduction coupled with radiation on convective heat transfer due to acoustic streaming in a kundt tube.
(1992) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.5, No.4.

Preuer, A Winter, J Hiebler, H
Computation of the iron flow in the hearth of a blast furnace.
(1992) Steel Research 63, No.4.

Yi, Z
Three dimensional turbulent flow simulation in a mixed-flow pump.
(1992) Thesis, University of Strathclyde, June.

Yahkin, MI Zhurbrin, SV
An application of DELA model to the cryogenic wind tunnel simulation.
(1992) Internal report. (Yashkin) Moscow Energy Institute. (Zhurbrin) CHAM MEI. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.7, No.1, pp 58-75.

Duursma, RPJ
Low Reynolds number model of turbulence and conjugate heat transfer in steel ladles.
(1992) Published in the proceedings of the 5th International PHOENICS Conference, Nice, and in the PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.6, No.4, pp 452-476.

Barthod, D
Symmetrical curtain coating flow modelling.
(1992) Published in the proceedings of the 5th International PHOENICS Conference, Nice, and in the PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.6, No.4, pp 368-384 & li-lxix.

Triboix, A Dondainas, N Coulibaly, A
An algorithm for body fitted coordinate generation using analogy with flow in porous media.
(1992) Published in the proceedings of the 5th International PHOENICS Conference, Nice, and in the PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.6, No.2 1993, pp 253-269.

Smith, AG Kopmels, M
Prediction of coanda effect flow fields.
(1992) Published in the proceedings of the 5th International PHOENICS Conference, Nice, and in the PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.6, No.4, pp408-426 1994

Fung, MTR
Numerical computation of buoyancy-dominated heated upward gas flow along an artificial-rough cylinder at moderate Reynolds numbers.
(1992) Heat Transfer 3rd UK National Conference Incorporating 1st European Conference on Thermal Sciences, Vol.1

Naslund, E Svensson, U Karlsson, E
Boundary layer flow over Sundsvall.
(1992) Published in the proceedings of the 5th International PHOENICS Conference, Nice, and in the PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.6, No.3, pp 222-238 & Fi-Fxi, 1993

Gopinath, A Mills, AF

Convective Heat Transfer due to Acoustic Streaming across the ends of a kundt tube.

(1992) Internal report. Dept of Mechanics, Aerospace and Clear Engineering University of California, Los Angeles, USA.

Kenworthy, G Smith, EPR Hulme, G

Intermediate plenum and mixed convection flows.

(1992) Internal Report: (Kenworthy and Hulme) NNC Ltd, Warrington, Cheshire.

Hulme, G

Computer modelling of transient mixed convection in the hot pool of an LMFBR.

(1992) Internal Report: NNC Ltd Warrington, Cheshire.

Hulme, G Curzon, AF

Analysis of fast reactor steam generator performance.

(1992) NNC Ltd, Warrington, Cheshire.

Svensson, U

Dispersion in a fractured rock.

(1992) Published in the proceedings of the 5th International PHOENICS Conference, Nice, and in the PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.6, No.3, pp 239-252, 1993.

R.T.C Choo, J Szekely & R.C Westhoff

On the Calculation of the Free Surface Temperature of Gas-Tungsten-Arc Weld Pools from First Principles: Part 1. Modeling the Welding Arc

(1992) Metallurgical Transactions B Volume 23B

1991

Spalding D Brian

Kolmogorov's two-equation model of turbulence.

(1991) Proceedings Royal Society London. A. pp 211-216

Spalding, DB

A conservative low-dispersion algorithm for the reduction of numerical diffusion.

(1991) Proceedings of 1st ICHMT Numerical Heat Transfer Conference, Guildford, Surrey, July 22-26, part 11, pp 100-121.

Knowles, K., Bray, D.

Computation of normal impinging jets in cross-flow and comparison with experiment

(1991) *International Journal for Numerical Methods in Fluids*, 13 (10), pp. 1225-1233.

Wan, J.W., van der Kooi, J.

Influence of the position of supply and exhaust openings on comfort in a passenger vehicle

(1991) *International Journal of Vehicle Design*, 12 (5-6), pp. 588-597.

Neve, R.S., Gusbi, M.M.

Mathematical modelling of reservoir flows

(1991) *Computer Methods in Water Resources II*, pp. 261-275.

Prakash, C., Zerkle, R.

Prediction of turbulent flow and heat transfer in a radially rotating square duct

(1991) *American Society of Mechanical Engineers, Heat Transfer Division, (Publication) HTD*, 188, pp. 1-13.

Varnavas, C.A., Assanis, D.N.

The effects of spray, mixing, and combustion model parameters on KIVA-II predictions

(1991) *SAE Technical Papers*, .

Chan, K.S., Pericleous, K., Cross, M.

Numerical simulation of flows encountered during mold-filling

(1991) *Applied Mathematical Modelling*, 15 (11-12), pp. 624-631.

Arends, J., Breuer, M., Dahmen, H.D., Detemple, P., Schneider, W., Urban, D., Zucht, B.

Beam profile monitors for a tagged photon beam facility

(1991) *Nuclear Inst. and Methods in Physics Research, A*, 306 (1-2), pp. 89-92.

Epple, B.

Dreidimensionale, turbulente Strömungs-und Mischungsgradberechnung mit dem PISO-Algorithmus

(1991) *Forschung im Ingenieurwesen*, 57 (4), pp. 105-112.

Ahmad, R.A., Boraas, S.

External tank chill effect on the Space Transportation System launch pad environment

(1991) *Journal of Spacecraft and Rockets*, 28 (3), pp. 306-314.

Overcamp, T.J., Agrawal, A.K., Cheng, W.-S., Yang, T.-T.

Calculations of fuel NO formation in a gas turbine combustor

(1991) *Proceedings of the ASME Turbo Expo*, 3, .

Overcamp, Thomas J., Agrawal, Ajay K., Cheng, Wei-Seng, Yang, Tah-Teh

Calculations of fuel NO formation in a gas turbine combustor

(1991) *American Society of Mechanical Engineers (Paper)*, 8 p.

Linton, Ronald L.

CFD modelling of electronic enclosures

(1991) *American Society of Mechanical Engineers, Heat Transfer Division, (Publication) HTD*, 171, pp. 95-100.

Yang, Tah-Teh, Agrawal, Ajay K.

Comparative evaluation of combustion codes for low-btu gas applications

(1991) *American Society of Mechanical Engineers (Paper)*, 8 p.

Yang, T.-T., Agrawal, A.K.

Comparative evaluation of combustion codes for low-btu gas applications

(1991) *Proceedings of the ASME Turbo Expo*, 3, .

Pressdee, B.

Computational fluid dynamics on your desktop

(1991) *ENGINEERING DESIGNER*, 17 (6), pp. 22-23.

Jambunathan, K., Lai, E., Hartle, S.L., Button, B.L.

Development of an intelligent front end: An experience

(1991) *Engineering Applications of Artificial Intelligence*, 4 (5), pp. 385-392.

Jambunathan, K., Lai, E., Hartle, S.L., Button, B.L.

Development of an intelligent front-end for a computational fluid dynamics package

(1991) *Artificial Intelligence in Engineering*, 6 (1), pp. 27-35.

Wang, H., Touber, S.

Distributed and non-steady-state modelling of an air cooler

(1991) *International Journal of Refrigeration*, 14 (2), pp. 98-111.

Schwarz, M.P.

Flow simulation in minerals engineering

(1991) *Minerals Engineering*, 4 (7-11), pp. 717-732.

Pressdee, B.

Fluid dynamics: more power to the PC

(1991) *PROCESS INDUSTRY J.*, 6 (6), pp. 47-49.

Heat Transfer in Electronic Equipment - 1991

(1991) *American Society of Mechanical Engineers, Heat Transfer Division, (Publication) HTD*, 171, 143 p.

Simon, Ralf, Huchler, Markus, Eickhoff, Jens

Modular fuel cell stack model in SIMTAS

(1991) *Proceedings of the Intersociety Energy Conversion Engineering Conference*, 3, pp. 533-537.

Zughbi, H.D., Schwarz, M.P., Turner, W.J., Hutton, W.

Numerical and experimental investigations of wear in heavy medium cyclones

(1991) *Minerals Engineering*, 4 (3-4), pp. 245-262.

Drake, S.N., Pericleous, K.A.

Numerical study of solar wall effects for the air movement and temperature distribution in the glass atrium of a building

(1991) *Proceedings of the International Centre for Heat and Mass Transfer*, pp. 577-587.

Langsholt, M., Thomassen, D.

The computation of turbulent flow through pipe fittings and the decay of the disturbed flow in a downstream straight pipe

(1991) *Flow Measurement and Instrumentation*, Vol 2 (1), pp. 45-55. Published by Butterworth-Heinemann Ltd

Chen, Qingyan, Van Der Kooi, J.

Transient heat transfer through the enclosures of a room with mixed convection

(1991) *Proceedings of the International Centre for Heat and Mass Transfer*, pp. 697-706.

Keski-Rahkonen, O., Eloranta, E., Huhtanen, R.

Use of numerical simulation computer codes to fire problems in nuclear power plants in Finland

(1991) *Nuclear Engineering and Design*, 125 (3), pp. 377-382.

Chadha, PK Malin, M

Modelling of two-phase flow inside geothermal wells

(1991) *Appl. Math. Modelling*, May. Vol. 17.

Kelkar, KM Choudhury, D Ambrosi, M

Numerical method for the computation of conjugate heat transfer in nonorthogonal boundary-fitted coordinates.

(1991) Numerical Heat Transfer, Part B, Vol.20, pp 25-40

Viachos, NS

Multidomain analysis of turbulent separated flows.

(1991) Presented at the 4th International PHOENICS User Conference, Miami, Florida, April.

Karvinen, R Ahlstedt, H Oksanen, A Siiskonen, P

The role of numerical simulation of combustion in the design of environmentally sound combustion equipment.

(Paper not available for distribution)

(1991) International Symposium on Energy and Environment, August 25-28, Espoo Finland

Elghobashi, SE Truesdell, GC

On the interaction between solid particles and decaying turbulence.

(1991) 8th Symposium on Turbulent Shear Flows, Technical University of Munich, September 9-11

Rsai R Mills, AF

Modeling of electrostatic precipitators.

(1991) Internal report. School of Engineering/Applied Science, University of California, Los Angeles, USA

Elghobashi, S

Particle-laden turbulent flows: direct simulation and closure models.

(1991) Applied Scientific Research 48, pp 301-314.

Miner, EW Swaan, Jr, TF Handler, RA Leighton, RL

Examination of wall damping for the k-e turbulence model using direct simulations of turbulent channel flow.

(1991) International Journal for Numerical Methods in Fluids Vol. 12, pp 609-624

Omori, T Nagata, T Taniguchi, H Kudo, K

Three-dimensional heat transfer analysis of a steel heating furnace.

(1991) Proceedings of the 7th International Conference, Stamford, USA, July 8-12.

Hamill, IS Jun, L Waterson, N

A model for the simulation of three-dimensional mould-filling processes with complex geometries.

(1991) Proceedings of the International Conference of Mathematical Modelling of Materials, Processing, Bristol 23-25 33482.

Hamill, IS Malin, MR

Turbulence modulation due to the presence of particles

(1991) Vol. 4 Suppl. 2, pp 212-225. PHOENICS Journal of Computational Fluid Dynamics and its Applications.

Dilawari, AH Szelely, J

A mathematical representation of a modified stagnation flow reactor for MOCVD applications.

(1991) Published in the Journal of Crystal Growth 108, pp 491-498, North-Holland

Maeda, T

Induced electric field of MHD ducts.

(1991) PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 4, No. 3, pp 289-332.

Khrupov, AP Zhubrin, SV

Natural convection in square and partitioned enclosures.

(1991) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 7, No. 1, pp 93-106, 1994

Naslund, E Karlsson, E Thaning, L

Sea breeze simulation with a static profile of the eddy viscosity.

(1991) PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 4 Suppl. 2, pp 196-211.

Published by CHAM.

Wrobel, LC Brebbia, CA

Computational modelling of free and moving boundary problems

(1991) Proceedings of the 1st International Conference, 2-4 July, Southampton.

Bukhari, KM

Temperature distribution in a nuclear fuel channel by using the computer code PHOENICS.

(1991) Presented at the 1st ICHMT Numerical Heat Transfer Conference, Guildford, Surrey, July 22-26.

Uppstu, E Hyoty, P Karvinen, R Siiskonen, P

Alternative air supply system for recovery boilers

(1991) Pulp and Paper Canada, 92. pp 48-51.

Du Toit, CG Kotze, JCB

Air flow through a louvre and radiator core system.

(1991) Second National Symposium on Computational Fluid Dynamics and its Applications, 24-27 June .

Vereeniging S. Africa

Riznic, JR

Application of the PHOENICS code in chemical and process industry.(1991) Presented at the 3rd Yugoslave Symposium on Chemical Engineering. Only abstract, in Yugoslaw.

Jensen, KF

Flow phenomena in chemical vapor deposition of thin films.

(1991) Annu. Rev. Fluid Mechanics, 23 pp 197-232

Oksanen, A Karvinen, R

Experimental and calculated data for combustion and emissions of heavy residual fuel oil.

(1991) 2nd European Conference on Industrial Furnances and oilers, Algarve, Portugal April 2-5.

Smith, AG Kopmels, M

Modelling of coanda effect devices using PHOENICS.

(1991) PHOENICS Journal of Computational Fluid Dynamics and its Applications vol. 4 Suppl. 1, pp 84-119.

Published by CHAM

Karvinen, R Siiskonen, P Hyoty, P

The effect of black liquor dry solids content on recovery boiler furnace behavior.

(1991) Tappi Journal. In print.

Spalding, DB Fueyo, N

Two-fluid models of turbulence for single-phase jets for sprays.

(1991) Proceedings of 1st ICHMT Numerical Heat transfer Conference, Guildford, Surrey, July 22-26, part 11, pp12-

54

Kobos, AM Read, CM

Improvements in PHOENICS performance on supercomputers.

(1991) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 4, No. 4, pp 333-361.

Varnas, SR

Gas flows and heat transfer in a dc plasma heated reactor.

(1991) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 4, No. 4, pp 362-388

Mills, WH

High temperature furnace simulation with surface to surface radiation.

(1991) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 4, No. 4, pp 389-420

Pericleous, KA

An application of the two-fluid technique to the modelling of turbulent diffusion flames.

(1991) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol4, Suppl. 2 pp 226-244

Wang, HW Visser, AH

3-d flow patterns in refigerated stores. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 4, No. 4, pp 333-361.

(1991) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 4, No. 2, pp 155-188

Chattree, M Tounsi, K

Numerical computations of bottom injected gas in a cryogenic system.

(1991) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 4, Suppl. 2, pp 120-145

Pasdari, M Gimson, CJ

Simulation of a new flow conditioner with the aid of PHOENICS.

(1991) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 4, No. 2, pp128-154

Adair, D Malin, MR Younis, BA

Calculations of diffusion from a line source in a turbulent boundary layer.

(1991) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 4, Suppl. 2, pp 146-162

Stassinopoulos, A Etienne, P Murthy, A Cheret, JP Willaime, T

Flow simulation over TGV (high speed train).

(1991) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 4, Suppl. 1, pp 1-21.

Jal, EN Glynn, DR Milford, CM

The use of PHOENICS in external v/stol aerodynamics.

(1991) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 4, No. 4, Suppl. 1, pp 43-55.

Kopmele, M Smith, AG

Predicting the flow field in the annular gap between concentric rotor and stator combinations at high Reynolds numbers

(1991) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 4, Suppl. 2, pp 163-195

Fraser, SM Yi, Z

Computational investigation of mixed-flow pump impeller flow behavior under different operation states.

(1991) Internal report. University of Strathclyde, Glasgow, Dept of Mechanical Engineering.

Smith, AG Wu, CML

Use of PHOENICS for modelling chemically reacting rocket exhausts.

(1991) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 4, Suppl. 1, pp 22-42.

Jureidini, RH Malin, MR Lord, MJ Yau, KK

A three-dimensional model for power condenser design.

(1991) Presented at the 4th International User Conference, Miami, Florida, April.

Hsieh, DY Sund, SE

Simulation of a chemical reactor using PHOENICS.

(1991) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 4, No. 1, pp 74-103.

Drake, SN Pericleous, KA Scheiwiller, T

Computational fluid dynamics a mathematical tool to simulate dispersal of airborne pollution.

(1991) Presented at the International Conference on Environmental Pollution.

Tsai, R Mills, AF

A model of particle re-entrainment in electrostatic precipitators.

(1991) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.3, No. 4, pp 392-420

Maeda, T

A discretization of spin term of micro-polar fluid.

(1991) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.3, No.4 pp 466-483.

Chadha, PK Malin, MR Palacio-Perez, A

Modelling of two-phase flow inside vertical geothermal wells.

(1991) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.3, No.4, pp 421-465.

Galea, ER Markatos, NC

The mathematical modelling and computer simulation of fire development in aircraft.

(1991) International Journal Heat Mass Transfer, Vol.34, No.1, pp 181-197.

Svensson, U

PHOENICS in geophysical fluid dynamics.

(1991) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 4, No.3, pp 231-240.

Lai, MC Kim, JY Cheng, CT Li, P Chui, G Pakko, JD

A numerical study of automotive catalytic converter internal flows.

(1991) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.4, No.2, pp 189-230.

Embacher, E

Transient surface-tension driven convection in a square cavity.

(1991) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 4, No.1, pp 27-50.

Proumen, NM Malin, MR Mendonca, FG

Evaluation of turbulence models for in-cylinder flows.

(1991) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 4, Suppl. 1, pp 56-83.

Chang, BH Mills, AF

Application of a low-reynolds number turbulence model to flow in a tube with repeated rectangular rib roughness.
(1991) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 4, No.3, pp 262-288

Kim, S Mills, AF

Modeling of perforated plate heat exchangers.

(1991) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.4, No.1 pp 1-26.

Heydarpour, J Slotta, L

Modeling erosion and deposition due to suction and jet flow.

(1991) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 4, No. 4, pp 421-453.

Van den Berg, AC

A three dimensional model of the flow and tracer dispersion in the tundish of a billet caster for steel production.

(1991) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 4, No. 1, pp 51-73.

Hernandez, J Crespo, A

Parabolic and elliptic models of wind-turbine wakes. Applications to the interaction between different wakes and turbines.

(1991) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 4, No. 2, pp 104-127.

Andersson, A Svensson, U

A numerical simulation of an ice particle trajectory.

(1991) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 4, No. 3, pp 241-261.

Hart, M Singh, G

Computational methods for the aerodynamic development of large steam turbines.

(1991) IMechE C423/009

Waterson, N

Free surface flow modelling with PHOENICS using the scalar equation method.

(1991) Presented at the PHOENICS UK User Meeting, 21 January.

Edler, R Berger, P

A new nozzle configuration for laser cutting.

(1991) Internal report. University of Stuttgart, Pfaffenwaldring, 43 D 7000 Stuttgart 80, Germany. Published 22nd August.

Tsai, R Mills, AF

Modelling of electrostatic precipitators.

(1991) Internal report. University of California, Los Angeles, USA.

Dzodzo, M

Application of rectangular coordinates to the problem of laminar natural convection in enclosures of arbitrary cross-section.

(1991) Published in Proceedings of the 1st ICHMT International Numerical Heat Transfer Conference and Software Show, July 22-26, Guildford, Surrey, pp 1-11, part II.

Korolyova, IB Niculin, DA Strelets, M

Numerical simulation of 2-d and 3-d non-steady turbulent gas mixture flows with large density gradients in ventilation systems.

(1991) Published in Proceedings of the 1st ICHMT International Numerical Heat Transfer Conference and Software Show, July 22-26, Guildford, Surrey, pp 66-75, part I.

Zhurbrin, SV Pavitskiy, NI Yashkin, MI

Computer simulation standardized by PHOENICS interfaces: feasibility study of model for two-phase flow calculations.

(1991) Published in Proceedings of the 1st ICHMT International Numerical Heat Transfer Conference and Software Show, July 22-26, Guildford, Surrey, pp 76-89, part I.

Lerotheou, CS Galea, ER

Fire field modelling in a parallel computing environment: an initial study.

(1991) Published in the Proceedings of the 1st ICHMT International Numerical Heat Transfer Conference and Software Show, July 22-26, Guildford, Surrey, pp 90-99, part II.

Chen, HB Larsen, T Petersen, O

Turbulent buoyant jets in flowing ambient.

(1991) Environmental Hydraulics, Vol.1, pp 97-102 Balkema, Rotterdam.

Dahl, C Petersen, O Larsen, T

Development of a numerical model for secondary clarifiers .

(1991) Proceedings, XXIV IAHR Congress, Madrid, Spain.

Phelps, PJ Waterson, NP

A computer model for the analysis of tank spills and containment overflows.

(1991) Proceedings, the 4th International PHOENICS User Conference, Miami, USA April and the PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.5, No.4, pp 381-420.

Malin, MR Younis, BA

Calculation of stably-stratified turbulent mixing layers with an improved reynolds-stress closure.

(1991) Proceedings of XXIV IAHR Congress, September 9-13 Madrid, Spain.

Chen, HB

Turbulent buoyant jets and plumes in flowing ambient environments.

(1991) Series paper 3, Department of Civil Engineering, Aalborg University, Denmark August.

Campbell, DJ Blair, GP

The design of small capacity two-stroke engines to obtain good power and low emissions characteristics.

(1991) CVI Berichte, NR. 875, pp 239-260.

Emslie, SV

The role of cfd modelling in design for safety and environmental management.

Richards, PJ Hoxey, PR

Computational and wind tunnel modelling of mean wind loads on the silsoe structures building.

(1991) Proceedings of 8th International Conference on Wind Energy-London, Ontario, Canada, 8-12 July.

Du Toit, CG Kroger, DG

Numerical modelling of recirculation in mechanical-draught heat exchangers.

Proceedings of 1st ICHMT Numerical Heat Transfer Conference and Software Show, 22-26 July, Guildford, Surrey.

Du Toit, CG, von Backstrom, TW Pool, CH

The numerical tracking of the canard tip vortices of a missile model.

(1991) Proceedings of Third South African Aeronautical Engineering Conference, Pretoria, SA 14-16 August.

Bui, RT Simard, G Kocaeffe, Y Charett, A Lacroix, M Jain, S Perron, J Prouix, A Barr, P

3d-simulation of the thermal performance of a coke calcining kiln.

(1991) Internal Report. (Bui) University of Quebec, Dept of Scientific Applications.

Mendonca, FG Shah, P Glynn, DR

Modelling of in-cylinder aerodynamics using a body-fitted moving grid.

(1991) Proceedings, The 4th International PHOENICS User Conference, Miami, Florida, USA April and The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.5, No.3, pp 234-280.

Shih, PH Pen, CL Chien, LC Hong. WT

Numerical and experimental studies of the fluid mechanics characteristics of a two-stroke spark ignition engine.

(1991) 8th National Conference on mechanical Engineering CSME, Taipei.

Innes, JA Cusack, BL Batterham, RJ Hardie, GJ Burke, PD

The Hismelt process: adding value to Australian mineral resources.

(1991) Internal Report: Joint venture: CRA Ltd and Midrex Corp regarding Hismelt process development 1982/1993

Keogh, JV Hardie, GJ Philp, DK

Hismelt process advances to 100,000 t/y plant.

(1991) Internal Report on the Hismelt Process, Hismelt Co Pty Ltd/CRA Ltd/Klockner Werke

Cusack, BL Hardie, J Burke, PD

Hismelt: 2nd generation direct smelting.

Internal Report : CRA Ltd/Klockner Werke. Joint venture Hismelt Process, 1982/1993

Hamill, IS & Malin, MR

Turbulence Modulation Due to the Presence of Particles.

(1991) Miami User Conference

1990

Spalding, Brian

Computer simulation of flow, heat transfer, and combustion

(1990) *Proceedings of the International Centre for Heat and Mass Transfer*, pp. 237-245.

Spalding D Brian

Computer Simulation of Fluid Flow and Combustion in Reciprocating Engines.

(1990) Internal Combustion Engineering, Ed. J H Weaving, Elsevier, Applied Science ISBN 185166-410-6

Spalding D Brian

Computer Simulation of Multi-Phase Flow.

(1990) Second World Congress International Association Computational Mechanics, p 234

Spalding D Brian

CFD in the Automobile Industry.

(1990) Proceedings 'Open Supercomputing' European Convex Automobile Symposium

Hofacker, W., Huchler, M.

Analysis of the flow field in the HERMES cabin

(1990) *SAE Technical Papers*, .

Fleming, J.S., Tramschek, A.B., Abdul-Husain, J.M.H., Piechna, J.

Efficient and flexible use of reciprocating compressors. A problem of valve aerodynamics

(1990) *Proceedings of the International Centre for Heat and Mass Transfer*, pp. 341-347.

Ilegbusi, O.J., Szekely, J.

Modeling of gas-bubble driven circulations systems

(1990) *ISIJ International*, 30 (9), pp. 731-739.

Agonafer, D., Chu, R.C.

Numerical methodology for analysis of card on board packages

(1990) *American Society of Mechanical Engineers (Paper)*, 6 p.

Svensson, U., Häggkvist, K.

A two-equation turbulence model for canopy flows

(1990) *Journal of Wind Engineering and Industrial Aerodynamics*, 35 (1-3), pp. 201-211.

Türkoğlu, H., Farouk, B.

Numerical computations of fluid flow and heat transfer in a gas-stirred liquid bath

(1990) *Metallurgical Transactions B*, 21 (4), pp. 771-781.

Nadarajah, A., Rosenberger, F., Alexander, J.I.D.

Modelling the solution growth of TGS crystals in low gravity

(1990) *Journal of Crystal Growth*, 104 (2), pp. 218-232.

Pressdee, Bill

CFD advances into engine technology

(1990) *Automotive Engineer (London)*, 15 (1), 5 p.

Bechteler, W., Sattel, H., Schatz, K., Tasdemir, A.

3D-flow field measurements around a cylinder in open channel flow compared with numerical models.

(1990).

Chen, Q.

Comfort and energy consumption analysis in buildings with radiant panels

(1990) *Energy and Buildings*, 14 (4), pp. 287-297.

Salinas, D., Cooper, E.E.

Gas turbine engine test cell modeling

(1990) *American Society of Mechanical Engineers (Paper)*, pp. GT244 10p.

Fraser, S.M., Carey, C., Kowaleski, G.

LDA measurements in submerged nozzle flow

(1990).

Ruther, H., Parkyn, N.

Near real time photogrammetry on a personal computer

(1990) *Photogrammetric Record*, 13 (75), pp. 415-422.

Fraser, S.M., Carey, C., Moustafa, A.A.A.

Numerical and experimental analysis of flow around isolated and shielded cubes

(1990) *Applied Mathematical Modelling*, 14 (11), pp. 588-597.

Agonafer, D., Furkay, S.

Numerical and experimental investigation of heat transfer phenomena over an electronic module

(1990) *Proceedings - IEEE Semiconductor Thermal and Temperature Measurement Symposium*, p. 103.

Lansholt, M Thomassen, D Wilcox, P

Installation effects on flow metering.

(1990) Published by national Engineering Laboratory, Glasgow 22nd October (ISBN 09036402779)

Prakash, C

Two-phase model for binary solid-liquid phase change, part 1: governing equations.

(1990) Numerical Heat Transfer, part B, Vol.18, pp 131-145

Svensson U, Anderson, A

A numerical model of ice accretion on structures

Ouazzani, J Rosenberger, F

Three-dimensional modelling of horizontal chemical vapour deposition I. MOCVD at atmospheric pressure.

(1990) *Journal of Crystal Growth* 100, pp 545-576. Published by Elsevier Science Publishers BV (North Holland)

Shah, P Glynn, DR, Malin, MR

Use of a flame front model for numerical prediction of combustion in a spark-ignition engine.

(1990) *The PHOENICS Journal of Computational Fluid Dynamics and its Applications*, V3, No. 3 pp 362-391.

Hernandez, J Crespo, A

Wind turbine wakes in the atmospheric surface layer.

(1990) *The PHOENICS Journal of Computational Fluid Dynamics and its Applications*, V3, No.3, pp 330-361.

Chen, Q

Construction of a low-reynolds-number k-e model.

(1990) *The PHOENICS Journal of Computational Fluid Dynamics and its Applications*, V3, No.3, pp 288-329.

Hope, CB

The development of a water soluble photochromic dye tracing technique and its application to horizontal two-phase flows.

(1990) Thesis submitted for the degree of Doctor of Philosophy and the Faculty of Engineering, University of London and for the Diploma of Membership of Imperial College.

Hart, D Porter, D

Computational fluid modelling of a fermenter off-gas cyclonic separator.

(1990) *Proceedings: Vth World Filtration Congress.*

Ilegbusi, OJ Szekely, J

Three dimensional transport phenomena in chemical vapour deposition equipment. A comparison of theoretical predictions with measurements and some concepts regarding equipment design.

(1990) Metallurgical Transactions B, Vol. 21b, pp 753-760

Richard, PJ Bahattacharyya, D

Numerical modelling of metal extrusion using PHOENICS with Viscosity varying in the deformation zone.

Internal report, University of Auckland, New Zealand.

Effect of fuel type and burner geometry on the formation of solid pollutants in heavy fuel oil combustion.

(1990) 2nd Topic Oriented Technical Meeting IFRF paris, France may 21-23.

Dilawari, AH Szekely, J daly, J

Experimental measurements and theoretical predictions for the MOCVD of gallium arsenide using a barrel-type reactor.

(1990) Published in the Journal of Crystal Growth 102, pp 635-642 North Holland.

Leitner A,

Flow computation for high altitude simulation test facility.

(1990) RAFEAL_ADA 24th Israel Conference on Mechanical Engineering, Technion-Haifa.

Petersen, O

Note on numerical turbulence models (in Danish)

(1990) Department of Civil Engineering, Aalborg Univeristy, Denamrk.

Chen, HB Petersen, O Larsen, T

Numerical experiment on turbulent buoyant jets in flowing ambient.

(1990) Proceedings, VIII International Conference on Computational Methods in Water Resources, Venice, Italy.

Karvinen, R Siiskonen, P Hyoty, P

Role of combustion simulation during the operation and in the design of a modern recovery boiler.

(1990) Math. Modelling of Process in Energy Systems. Sarajevo March 20-24. Published by Hemisphere Publ, Corp.

Gidhagen, L Nyberg, L Rahm, L

A framework for a coastal dispersion model.

(1990) Marine Inv. Research – Sweden.

Malin, MR Younis, BA

Calculation of turbulent buoyant plumes with a Reynolds stress and heat flux transport closure.

(1990) International Journal of heat and mass Transfer, Vol. 33 no. 10, pp 2247-2264. Published by Pergamon Journals

Choo, RTC Szekely, J

The effects of gas shear stress on marangoni flows in arc welding.

(1990) Submitted to the Welding Journal.

Choo, RTC Szekely, J

Vaporization kinetics and surface temperature in mutually coupled gas tungsten welding and weldpool.

(1990) Submitted to the Welding Journal.

Saluja, N Ilegbusi, OJ Szekely, J

On the calculation of the electromagnetic force field in the circular stirring of metallic melts.

(1990) J Appl. Phys 68 (11), pp 5845-5850

Sibulkin, M Frendi, A

Prediction of flammability limit of an unconfined premixed gas in the absence of gravity.

(1990) Combustion and Flame vol. 82, pp334-345.

Tinoco, H Hemstrom, B

Numerical modelling of two-phase flow in the upper plenum of a bwr by a three dimensional two-fluid model.

(1990) Published by Elsevier Science Publishing. Engineering Turbulence Modelling and Experiments.

Watt, RM

Computational modelling of Corio;is mass flowmeters.

(1990) North Sea Flow Measurement Workshop, 23-25 October.

Ramos, JI Winowich, NS

Finite difference and finite element methods for MHD channel flows.

(1990) Published in the International Journal for Numerical Methods in Fluids, Vol. 11. pp 907-934

Prakash, C

Two-phase model for binary solid-liquid phase change, part 2: some illustrative examples.

(1990) Numerical Heat Transfer, Part B, Vol. 18, pp 147-167.

Phelps, PJ Pericleous, KA

The mathematical simulation of steam generators and condensers.

Ilegbusi, OJ Szekely, J

The computation of the velocity fields in mechanically agitated melts for turbulent and non Newtonian regimes.

(1990) Metallurgical Transactions B, Vol. 21b, pp 183-190.

Crespo, A Manuel F, Hernandez, J

Numerical modelling of wind turbine wakes.

(1990) Published in Proceedings of European Community Wind Energy Confernce, Madrid, Spain 10-14 September.

Wang,H Touber, S

Distributed dynamic modelling of a refridgerated room.

(1990) International Journal of Refrigeration, Vol. 13.

Lahey, RT

The analysis of phase separation and phase distribution phenomena using two-fluid models.

(1990) Nuclear Engineering and Design 122, pp 17-40. Elsevier Publishers, BV

Saluja, NS Ilegbusi, OJ Szekely, J

Fluid flow phenomena in the electromagnetic stirring of continuous casting systemsadvanced gas-cooled reactor boiler annulus.

(1990) Steel Research Issue No. 10/90, pp455-446

Beale, SB

Laminar fully developed flow and heat transfer in an off set rectangular plate-fin surface.

(1990) The PHOENICS journal of Computational Fluid Dynamics and its Applications, Vol.3, No.1, pp 1-38.

Nizou, PY Malin, MR

Modelisation de transfert de chaleur en jet partictal turbulent

(1990) Proceedings of S.F.T Symposium University de Nantes, France.

Jambunathan, K Kapasi, S Button, BL

Numerical study of flow field for confined laminar jet impingement.

(1990) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 3, No. 2, pp156-169.

Du Toit, CG Kitze, JCB du Plessis, JP

The modelling of the air flow through a grill and radiator core.

(1990) FEMSA 90, Proceedings of Finite Elements Methods in SA Symposium, Petoria, SA 15-17 August.

Aldhan, CM Semier, F

Applications of PHOENICS in the electronics industry.

(1990) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 3, No.2, pp 196-234.

Verlaan, CCJ de Graauw, J

Simulations of mist-flow in vane-type separators under offshore conditions.

(1990) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.3, No. 2, pp235-254

Hedde, RG

Simulation of flow field in distillation units using PHOENICS.

(1990) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.3, No. 1, pp110-124

Smith, AG

Use of PHOENICS for prediction of rocket exhaust flows.

(1990) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.3, No. 1, pp 87-109

Larsen, R Petersen, O chen, HB

Numerical experiment on turbulent jets in flowing ambient.

(1990) Presented at the VIII International Conference on Computational Methods in Water Resources, Venice, Italy, 11-15 June.

Shaw, CT

Predicting the laminar flow in an eccentric cylinder system.

(1990) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.3, No. 1, pp39-57

Glynn, DR Edwards, JP

Numerical prediction of flow over an idealized car body.

(1990) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.3, No.2, pp 125-158

Fung, MTR Hornby, RP

Computation of buoyancy-influenced gas flow in the advanced gas-cooled reactor boiler annulus.

(1990) Published by NNC Ltd, Warrington, Cheshire.

Hornby, RP Kebede W

Application of the PHOENICS code to predicting fuel pin temperatures as a result of the natural convection flow set up in a damaged fuel stringer in a closed storage tube.

(1990) Published by NNc Ltd, Warrington, Cheshire.

Fung, MTR Hornby, RP

Natural convection – friend or foe? Case studies from AGR design and safety thermal hydraulics.

(1990) Published by NNV Ltd, Warrington, Cheshire.

Bathia, PS Mukerjee, T

Multidimensional numerical modelling of two-phase flow and heat transfer processes in a plate type a/c evaporator.

(1990) Presented at the International Congress and Exposition, Detroit, Michigan, February 26 – March 2.
Published by SAE International Technical paper Series.

Pericleous, KA Markatos, NC

A two-fluid approach to the modelling of three dimensional turbulent flames.

(1990) Internal report. (Pericleous) Thames Polytechnic, London. (Markatos) National Technical University, Athens, Greece

Palacio, A Malin, MR Proumen, N Sanchez, L

Numerical computations of steady transonic and supersonic flow fields.

(1990) International Journal of Heat Mass Transfer, Vol. 33, No.6, pp 1193-1204. Published by Pergamon Journals.

Fueyo, N

ParabPlot: PHOTON graphics for parabolic runs.

(1990) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 3, No. 1, pp 58-86.

Gidhagen, L Rahm, L

Water exchange and dispersion modelling in coastal region: a method study.

(1990) SMHI Vatten 46: 7-17 Lind, Sweden.

Manzini, F Ramos, E Castrejon, A

MHD Flow in a non-uniform magnetic field.

(1990) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, vol. 3, No. 2, pp 170-195

Beale, SB Elias, SJ

Stress distribution in a plate subject to uniaxial loading.

(1990) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 3, No.3, pp 255-287

Du Toit, CG

The numerical prediction of dump diffuser flows.

(1990) Proceedings of 2nd South African Aeronautical Engineering Conference, Pretoria, SA, 14-16 February.

Weicheng, F Hui, Z

A two-fluid model of turbulent combustion.

(1990) University of Science and Technology of China.

NS Viachos, WA Mahaffey & PL Daley

Fundamental Investigation of Duct/ESP Phenomena

(1990) Fossil

1989

Spalding D Brian & Qin, H.Q.

The Numerical Simulation of Shock Initiation In Solid Explosives With Gas Inclusions.

(1989) Proceedings INRIA Third International Conference on Numerical simulation of Combustion', pp 25-35

EsmailiVerlaan, CCJ, E., Bijlani, C., Shimura, K., Prasad, V., Minatsuki, I.
Analytical evaluation of natural convective cooling of nuclear reactor enclosure structure
(1989) *American Society of Mechanical Engineers, Heat Transfer Division, (Publication) HTD*, 123, pp. 185-192.

Seppen, J.J., Janssen, G.A.H.F.
Development and verification of numerical flow package for manifolds in combustion engines
(1989) *Proceedings of the International Centre for Heat and Mass Transfer*, pp. 455-467.

Heydarpour, Jalal, Slotta, Larry S.
Modeling erosion and deposition due to suction and jet flows
(1989) pp. 392-398.

Flood, S.C., Katgerman, L., Langille, A.H., Rogers, S., Read, C.M.
Modelling of fluid flow and stress phenomena during DC casting of aluminium alloys
(1989) *Light Metals: Proceedings of Sessions, AIME Annual Meeting (Warrendale, Pennsylvania)*, pp. 943-947.

Potocnik, Vinko
Modelling of metal-bath interface waves in hall-heroult cells using ester/phoenics
(1989) *Light Metals: Proceedings of Sessions, AIME Annual Meeting (Warrendale, Pennsylvania)*, pp. 227-235.

Agonafer, D., Moffatt, D.F.
Numerical modeling of forced convection heat transfer for modules mounted on circuit boards
(1989) *American Society of Mechanical Engineers, Heat Transfer Division, (Publication) HTD*, 121, pp. 1-5.

Crespo, A., Hernandez, J.
Numerical modelling of the flow field in a wind turbine wake
(1989) *American Society of Mechanical Engineers, Fluids Engineering Division (Publication) FED*, 76, pp. 121-127.

Werner, C., Ulacia F., J.I., Howell, F.S.
Numerical simulation of gas flow and chemical reactions in semiconductor processing equipment
(1989) *Digest of Technical Papers - Symposium on VLSI Technology*, pp. 49-50.

Toro B, Francisco M., Meijer, Karel, Van Rijn, Leo
Quasi-3D and fully -3D modelling of suspended sediment transport
(1989) pp. 45-51.

Dunstall, M.
Rotorua geothermal field
(1989) *Energy Digest*, 18 (5), pp. 10-16.

Irاندoust, Said, Andersson, Bengt
Liquid film in Taylor flow through a capillary
(1989) *Industrial and Engineering Chemistry Research*, 28 (11), pp. 1684-1688.

Pressdee, Bill
Software model for CZ
(1989) *European Semiconductor*, 11 (8), pp. 21-22.

Jubran, B.A.
Correlation and prediction of film cooling from two rows of holes
(1989) *Journal of Turbomachinery*, 111 (4), pp. 502-509.

Bourgeois, T., Bui, R.T., Charette, A., Kocaefe, Y.S.

Mathematical modeling of an aluminum casting furnace combustion chamber
(1989) *Metallurgical Transactions B*, 20 (3), pp. 421-429.

Anon

Computer models fluid flow in the steel industry
(1989) *Steel Times*, 217 (4), p. 190.

Anton, G., Büchler, K., Kückes, M.

A LED monitoring system for pulse height and time measurement with scintillation counters
(1989) *Nuclear Inst. and Methods in Physics Research, A*, 274 (1-2), pp. 222-226.

Fleming, J.S., Tramschek, A.B., Abdul Husain, J.M.H.

A theoretical and experimental investigation of the flow of gas through reciprocating compressor valves.
(1989) pp. IMechE 1989-10.

Fogelqvist, E., Krysell, M., Öhman, P.

Evaluation of perfluoromethyldecalin as a deliberate tracer for the study of water mixing processes
(1989) *Marine Chemistry*, 26 (4), pp. 339-349.

Macilwain, C.

Keeping ahead of the flow.
(1989) *ENGINEER*, 268 (6938), Mar. 16, 1989, pp. 36-37.

Hoffman, N., Galea, E.R., Markatos, N.C.

Mathematical modelling of fire sprinkler systems
(1989) *Applied Mathematical Modelling*, 13 (5), pp. 298-306.

Heydarpour, J., Slotta, L.S.

Modeling erosion and deposition due to suction and jet flows
(1989).

Radosavljevic, D., Spalding, D.B.

Simultaneous prediction of internal and external aerodynamic and thermal flow fields of a natural-draft cooling tower in a cross-wind
(1989).

Simard, G Bui, RT Potocnik, V

Simulating complex industrial processes using PHOENICS
(1989) The Second International Symposium on Fire Safety Science, Tokyo, Japan. Hemisphere Publishers, Washington, USA

Malin, MR Younis, BA

Calculation of turbulent buoyant plumes with a Reynolds stress and heat flux transport closure.
(1989) Proceedings on the 3rd PHOENICS User Conference, Dubronik. The PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol.2, No 3 pp 368-390. Published by CHAM

Mahaffey, WA Mukerjee, T Rhodes, N Costes, NC

PHOENICS verification exercise simulating the flow in the Rockwell axisymmetric turnaround 180 o duct (TAD) flow rig.
(1989) Proceedings on the 3rd PHOENICS User Conference, Dubronik. The PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol.2, No 3 pp 343-367. Published by CHAM

Malin, MR Proumen, N

Calculation of intermittent turbulent shear flow with a Reynolds stress transport closure.

(1989) Proceedings on the 3rd PHOENICS User Conference, Dubronik. The PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol.2, No 4 pp 410-424. Published by CHAM

Lamers, APGG van de Velde, R

Air flow patterns in ventilated rooms.

(1989) Proceedings on the 3rd PHOENICS User Conference, Dubronik. The PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol.2, No 2 pp 219-238. Published by CHAM

Montasser, W

Modelling of gas flow in a vertical chemical vapour deposition (cvd) reactor.

(1989) Proceedings on the 3rd PHOENICS User Conference, Dubronik. The PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol.2, No 4 pp 442-465. Published by CHAM

Maeda, T Matsunaga, F

A survey note on non-Newtonian fluid flow simulation.

(1989) Proceedings on the 3rd PHOENICS User Conference, Dubronik. The PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol.2, No 4 pp 466-487. Published by CHAM

Fukuyama, Y Nakajima, S Ohte, S

The application of PHOENICS to semi-conductor production process

(1989). Proceedings on the 3rd PHOENICS User Conference, Dubronik. The PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol.2, No 4 pp 488-507. Published by CHAM.

Drake, SN Pericleous, KA

Numerical study of solar wall effects for the air movement and temperature distribution in the glass atrium of a building.

(1989) Presented at the Heat and mass Transfer in Building Material and Structure, ICHMT XXI Symposium, Dubronik September

Prakash, C Voller, V

On the numerical solution of continuum mixture model equations describing binary solid-liquid phase change.

(1989) Numerical Heat Transfer, Part B, Vol.15 pp, 1171-189. Published by Hemisphere Publishing Corporation.

Pulles, C Lamers, A

Comparison between two models of boundary layer development at a step change in surface roughness.

(1989) Proceedings on the 3rd PHOENICS User Conference, Dubronik. The PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol.2, No 4 pp 391-409. Published by CHAM.

Blair, GP

Motion and mixing in the cylinder of a two-stroke engine prior to combustion.

(1989) Published in Heat and Mass Transfer in Gasoline and Diesel Engines.

Gadilhe, AY Fleury, BA

Wind pressure coefficients: a comparison between PHOENICS and wind tunnel results.

(1989) Proceedings on the 3rd PHOENICS User Conference, Dubronik. The PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol.2, No 2 pp 183-201. Published by CHAM

Nyberg, L

PHOENICS simulation of Stommel's ocean.

(1989) Proceedings on the 3rd PHOENICS User Conference, Dubronik. The PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol.2, No 2 pp 239-257. Published by CHAM

Palacio, A Malin, MR Proumen, N Sanchez, L

Flowfield predictions of transonic and supersonic problems.

(1989) Proceedings on the 3rd PHOENICS User Conference, Dubronik. The PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol.2, No 2 pp 202-218. Published by CHAM

Burke, PD Burgess, J

*** A Coupled gas and solid flow, heat transfer and chemical reaction rate model for the ironmaking blast furnace.

(1989) Iron making Conference Proceedings.

Parsons, DJ

Modelling gas exchanger in a silage clamp using PHOENICS.

(1989) Divisional Notes DN1552 AFRC Institute of Engineering Research. Silsoe December.

Gregory-Smith, DG Haekins, MJ

Modelling an axisymmetric curved wall jet with application to the coanda flare.

Proceedings on the 3rd PHOENICS User Conference, Dubronik. The PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol.2, No 1 pp 1-20. Published by CHAM

Rogers, S Katgerman, L

Particle tracking of solidifying metal droplets during gas atomization.

(1989) Proceedings on the 3rd PHOENICS User Conference, Dubronik. The PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol.2, No 2 pp 171-182. Published by CHAM.

Flood, SC Kasai, K Katgerman, L

The modelling of heat and fluid flow in the dc casting of aluminium alloys.

(1989) Proceedings on the 3rd PHOENICS User Conference, Dubronik. The PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol.2, No 2 pp 155-170. Published by CHAM.

Lamers, APGG

Influence of temperature dependent viscosity on laminar diffusion flames.

(1989) Proceedings on the 3rd PHOENICS User Conference, Dubronik. The PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol.2, No 2 pp 138-154. Published by CHAM.

Kjaldman, L

Modelling of peat dust combustion.

(1989) Proceedings on the 3rd PHOENICS User Conference, Dubronik. The PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol.2, No 1 pp 88-137. Published by CHAM.

Schutzbach, KC Mahaffey, WA Mukerjee, T

Numerical modelling of the intake manifold of a multicylinder automotive diesel engine.

(1989) Proceedings on the 3rd PHOENICS User Conference, Dubronik. The PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol.2, No 1 pp 61-87. Published by CHAM.

Danckert, H Wersching, R Schockle, S

Three dimensional calculation of the water flow in a cylinder head.

(1989) Proceedings on the 3rd PHOENICS User Conference, Dubronik. The PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol.2, No 1 pp 42-60. Published by CHAM.

Moffat, J Pericleous K

The modelling of two-phase flows using the general purpose particle tracking program GENTRA
(1989) Proceedings on the 3rd PHOENICS User Conference, Dubronik. The PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol.2, No 1 pp 21-40. Published by CHAM

Maeda, T Matsunaga, F

A Survey note on pressure boundary conditions.

(1989) Proceedings on the 3rd PHOENICS User Conference, Dubronik. The PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol.2, No 3 pp 272-303. Published by CHAM

Fraser, Sm Carey, C Kowaleski, G

LDA measurements in submerged nozzle flow.

(1989) Presented at the 3rd International Conference on Laser Anemometry. Advances and Applications Organised by UK and Dutch LDA Goups.

Burdette, SR Coates, PJ Armstrong, RC Brown, RA

Calculations of viscoelastic flow through an axisymmetric corrugated tube using the explicit elliptic momentum equation formulation (EEME)

(1989) Journal of Non-Newtonian Fluid Mechanics, 33, 1-23 Elsevier Science Publishers BV Amsterdam.

Dilawari, AH Szelely, J

Computed results for the deposition rates and transport phenomena for an MOCVD system with a conical rotating substrate.

(1989) Published in the Journal of Crystal Growth 97, pp 777-791 North Holland.

Chyou, P Pfender, E

Behaviour of particulates in thermal plasma flow.

(1989) Plasma Chemistry and Plasma Processing, Vol.9, No.1.

Schwarz, MP

Two and three dimensional methods of a gas stirred bath of molten pig iron.

(1989) PHOENICS Journal of Computational Fluid Dynamics and its Applications. Vol.1 no.3 pp282-310.

Chyou, YP Pfender, E

Modeling of plasma jets with superimposed vortex flow.

(1989) Plasma Chemistry and Plasma Processing, Vol. 9 No.2.

Lawrence, SP

*** Turbulence modelling in naturally convecting fluids.

(1989) Published in Culham Laboratory, Abingdon, Oxford (Ref: CLMR292).

Serag-Eldin, MA

Employing SATELLITE and PHOTON as Input and Output devices for a non-PHOENICS code.

(1989) PHOENICS Journal of Computational Fluid Dynamics and its Applications. Vol.1, No.3, pp 311-323

Deiters, TA Mudawar, MA

Prediction of three-dimensional cooling rate for a spray quenched aluminium block.

(1989) Thesis/Purdue University W. Lafayette Indiana, USA

Morton, KW Paisley, MF

*** A finite volume scheme with shock fitting for the steady euler equations.

(1989) Journal of Computational Fluid Dynamics, Vol.80, No.1 January.

Magnussen, BG

Pollutant formation in gas turbine combustors based on the eddy dissipation concept.

(1989) NGC Projektmoete Trondheim, 9th November (Nordic Gastechnic Center, Project Meeting.

Richards, PJ

***Computational modelling of wind flow around low-rise building using PHOENICS.

(1989) Div Notes DN 1508, AFRC Inst. Eng. Research, Silsoe. March.

Malin, MR Younis, BA

Modelling Reynolds Stress and heat flux transport in turbulent buoyant plumes.

(1989) Proc. XXIII IAHR Congress Hydraulics and the Environment, ppD.9-D.16 August 21-25 Ottawa, Canada.

Ilegbusi, OJ Szekely, J

The effect of Ultrahigh magnetic fields on dopant distribution in CZ systems: a modeling study and comparison with asymptotic solutions.

(1989) Metallurgical Transactions A vol, 20A, pp1637-1646.

Ilegbusi, OJ Szekely, J

Three dimensional velocity fields for Newtonian and non-Newtonian melts produced by a rotating magnetic field.

(1989) ISIJ International Vol. 29, No.6, pp462-468

Carey, c Gilchrist, AD Yilmaz, T

Laminar natural convection in a vertical channel.

(1989) Presented at the 3rd International Conference on laser Anemometry. Advances and Applications. Organised by UK and Dutch LDA Groups ASME.

Gidhagen, L Rahm, L Nyberg, L

Lagrangian modelling of dispersion, sedimentation and re-suspension processes in marine environments.

(1989) SMHA. Deutsche Hydrograph Zeitschrift.

Svensson, U Ballfalk, L Hammar ,L

A mathematical model of border-ice formations in rivers.

(1989) Cold Regions Science and Technology, 16, pp 179-189.

Svensson, U Gidhagen, L

Stratified estuary flows. Comparisons with laboratory experiments.

(1989) Proceedings of the 3rd PHOENICS User Conference-Dubronik,. The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.2, No.3, pp 258-271. Published by CHAM

Qin, HQ Spalding, DB

The numerical simulation of shock initiation in solid explosives and gas inclusion.

(1989) Proceedings of the 3rd International Conference on Numerical Combustion, Juan les Pins Antibes, May 23-26. Published in Lecture Notes in Physics No. 351, pp 417-427 Springer –Verla

Kirts, RE Kodres, CA

***Perturbations in atmospheric density caused by high rise buildings and their effect on astronomical observations- a case study.

(1989) Proceedings of Building Simulation, pp 279-284. Published by the US Government.

Martin, JJ

Numerical solution to automobile passenger compartment cooling by use of PHOENICS.
(1989) Thesis University 9-f Missouri-Rolla.

Vardelle, M Pateyron, B Vardella, A Fauchais, P Saray, I
Characterization of a d c plasma torch with axial injection of powders.
(1989) University of Limoges Eotvos University, Hungary.

Cartwright R, Ilegbusi, OJ Szekely, J
A comparison of order-of-magnitude and numerical analysis of flow phenomena in czochralski and magnetic czochralski systems
(1989) Journal of Crystal Growth 94, pp 321-333. Published by Elsevier Science Publishers BV

Ilegbusi, OJ Szekely, J
Effect of externally imposed magnetic field on tundish performance.
(1989) Ironmaking and Steelmaking, Vol. 16, No.2.

Atkinson, E
Predicting the performance of sediment control devices at intakes.
(1989) Published by Hydraulics Research, Wallingford, Berks (Technical Note OD/TN 417 January)

Thomas, DL Hornby, RP
Natural convection cooling of a close-packed array of AGR fuel pins surrounded by graphite debris.
(1989) Published by Central Electricity Board and National Corporation Ltd.

Varnas, SR
The PHOENICS model of a low-current plasma arc.
(1989) Proceedings of the 3rd PHOENICS User Conference-Dubrovnik. The PHOENICS Journal of Computational Fluid Dynamics and Its Applications Vol. 2, No.3, pp 304-343. Published by CHAM.

Faghri, A Chen, MM Mahefkey, ET
Simultaneous axial conduction in the fluid and the pipe wall for forced convective laminar flow with blowing and suction at the wall.
(1989) International Journal of Heat and Mass Transfer, Vol. 32, No. 2, pp281-288. Published by Pergamon Press.

Fung, MTR
Numerical solution for natural convection flow in the feedwater and decay heat penetrations of an advanced gas-cooled reactor.
(1989) Published by NNC Ltd, Warrington, Cheshire.

Bowden, K
Kron's method of tearing on a transputer array with an application to the solution of a distributed system.
(1989) Polytechnic East London, 19th June.

Qin, HQ Spalding, DB

The lagrangian hydrodynamical calculations in PHOENICS code.

(1989) PHOENICS Journal of Computational Fluid Dynamics and its Applications vol. 1, No.3, pp 324-370. Published by CHAM.

Palacio, A Malin, MR

Simulation of supersonic flow past a double-wedge profile.

(1989) PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol. 1, No.3, pp 371-408. Published by CHAM.

Irاندoust, S Andersson, B

Simulation of flow and mass transfer in taylor flow through a capillary.

(1989) Computers and Chemical Engineering. Proceedings of CHAM DATA 88 Conference.

Ernola, P Hupa, M Kjaldman, L Oksanen, P

Detailed modelling of NOX emissions in fuel staging.

(1989) 9th Members Conference of the International Flame Research 24-26 May.

Huotari, J Kjaldman, L Paakkinen, K

Staged combustion of pulverized peat in a 5 MW single burner furnace.

(1989) 9th Members Conference of the International Research, 24-26 May.

Larsson, R

Implementation of an algebraic stress model for turbulence generated secondary currents.

(1989) PHOENICS Journal of Computational Fluid Dynamics and its Applications Vol. 1, No.4, pp 459-481 . Published by CHAM.

Casterjon, A Ramos, E Lopez de Haro, M

Multiple solutions in benard convection.

(1989) Proceedings of the Conference on Synergetics, Order and Chaos 13-17 October, Madrid, Spain. Published World Scientific

Malin, MR Sanchez, L

A revised version of the k-kl turbulence model for near-wall flows.

(1989) Applied Mathematical Modelling, vol. 12 March. Published by Butterworths

Radosavljevic, D Spalding, DB

The use of PHOENICS to simulate three-dimensional effects in natural-draught cooling towers

(1989) PHOENICS Journal of Computational Fluid Dynamics and its Applications vol. 1 no.4, pp 409-458. Published by CHAM,

Chen, MM Faghri, A

An analysis of the vapour flow and heat conduction through the liquid-wick and pipe wall in a heat pipe with single or multiple heat sources.

(1989) Presented at ASME/AICHE National Heat Transfer Conference, August 5-9 Philadelphia, Pennsylvania, USA.

Prakash, C

Numerical solution of continuum mixture model equations for solid-liquid phase change in binary systems- implementation on PHOENICS.

(1989) PHOENICS Journal of Computational Fluid Dynamics and its Applications vo. 1. No.4, pp 502-515. Published by CHAM.

Vlachos, NS

Calculation of two-dimensional turbulent flow in a PC cabinet.

(1989) PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.1, No.4 pp 482-501. Published by CHAM.

Malin, MR

Modelling the effects of lateral divergence on radially spreading turbulent jets.

(1989) Computers and Fluids, Vol. 17, No.3, pp 453-465. Published by Pergamon Press.

Malin, MR

Analysis of turbulent forced plumes into stable a environment.

(1989) Applied Mathematical Modelling, Vol. 13, February, pp 122-126. Published by Butterworth.

1988

Spalding, DB

Modifying a body-fitted coordinate grid during a PHOENICS computation.

(1988) PHOENICS Journal of Computational Fluid Dynamics and Its Applications Vol.1 No. 1 pp110-140. Published by CHAM.

Spalding D Brian

Pergamon 40th Anniversary Festschrift, PhysicoChemical Hydrodynamics,

vol 10. no.2. pp 133-134

Jun, L Spalding DB

Numerical simulation of flow with moving interfaces.

(1988) PCH PhysicoChemical Hydrodynamics, Vol. 10, No. 5/6, pp 625-637. Published by Pergamon Press

Radosavljevic, D Spalding, DB

Simultaneous prediction of internal and external aerodynamic and thermal flow fields of a natural-draft cooling tower in a cross-wind.

(1988) Internal report, Imperial College.

Castrejon, A Spalding, DB

An experimental and theoretical study of transient free-convection flow between horizontal concentric cylinders.

(1988) International Journal of heat and mass Transfer, Vol. 31, No. 2, pp 273-284

Castrejon A, Spalding D Brian

An Experimental and Theoretical Study of Transient Free-Convection Flow Between Horizontal Concentric Cylinders.

(1988) International Journal of Heat and Mass Transfer, Vol. 31, No. 2. pp. 273-284, Pergamon Journals Ltd.

Agonafer, D., Furkay, S.

Numerical and experimental investigation of heat transfer phenomena over an electronic module.

(1988) p. 85.

Turkoglu, H., Farouk, B.

Numerical computations of fluid flow and heat transfer in a gas stirred liquid bath

(1988) *American Society of Mechanical Engineers, Heat Transfer Division, (Publication) HTD*, 96, pp. 133-139.

Adey, P.C., Greaves, J.R.A.

The application of a 3-D aerodynamics model to the sterling 825 body shape and comparison with experimental data

(1988) *SAE Technical Papers*, .

Militzer, J., Shiu, D.T., Watts, K.C.

Numerical prediction of the internal two-phase flow in a variable air atomizer

(1988) *Journal of Engineering for Gas Turbines and Power*, 110 (4), pp. 712-713.

Qingyan, C., Van Der Kooi, J., Meyers, A.

Measurements and computations of ventilation efficiency and temperature efficiency in a ventilated room

(1988) *Energy and Buildings*, 12 (2), pp. 85-99.

Pericleous, K.A.

Computer modelling for the analysis of fluid flow, heat transfer and combustion in industry

(1988) *Energy World*, (161), pp. 9-11.

Tam, L.T., Przekwas, A.J., Muszynska, A., Hendricks, R.C., Braun, M.J., Mullen, R.L.

Numerical and analytical study of fluid dynamic forces in seals and bearing.

(1988) *Journal of vibration, acoustics, stress, and reliability in design*, 110 (3), pp. 315-325.

Fleming, J.S., Tramschek, A.B., Abdul-Husain, J.M.H.

A comparison of flow and pressure distribution in simple valves using different computational methods.

(1988).

Anderson, N.M.

A comparison of the computer programs FLOW3D, FLUENT/BFC and PHOENICS for solving fluid flow problems in complex geometries.

(1988).

Uzel, A.R., Edwards, R.J., Button, B.L.

A study into the feasibility of an intelligent knowledge based system (IKBS) in computational fluid mechanics (CFM)

(1988) *Engineering Applications of Artificial Intelligence*, 1 (3), pp. 187-193.

Rand, C.

CFD: how far has it got?

(1988).

Ilegbusi, O.J., Szekely, J., Cartwright, R.A.

Some asymptotic and computed results on magnetically damped czochralski crystal growing systems.

(1988) *PCH. Physicochemical hydrodynamics*, 10 (1), pp. 33-51.

Hoffmann, N., Markatos, N.C.

Thermal radiation effects on fires in enclosures

(1988) *Applied Mathematical Modelling*, 12 (2), pp. 129-140.

Markatos, NC Spalding, DB

Computer modelling of the heat transfer mechanical and thermal-stress behavior of heat exchangers
(1988) Presented at the European Conference on Heat Exchangers "Recent Advances in Heat Exchanges", Grenoble France October

Ilegbusi, OJ Szekely, J Cartwright, RA
Some asymptotic and computed results on magnetically damped czochralski crystal growing systems
PCH PhysicoChemical Hydrodynamics, Vol. 10, No. 1, pp 33-51. Published by Pergamon Press

Ilegbusi, OJ Szekely, J
*** On the flow criteria for suspending solid particles in inductively stirred melts: part 1. Newtonian Behaviour
(1988) Metallurgical Transactions, B Vol.19b, pp 557-562 August

Slotta, LS Wollander, JR Teng, CC Heydarpour, J
Flow through fish bypass intakes.
National Conference on Hydraulic Engineering and International Symposium on Model-Prototype Correlations.
Colorado Springs, August

Ilegbusi, OJ Szekely, J Boom, R van der Heiden, A Klootwijk, J
*** Physical and mathematical modelling of fluid flow and tracer dispersion in a large tundish and a comparison with measurements in hoogovens system.
(1988) Proceedings W O Philbrook Memorial Symposium, pp 185-191

Wahnsiedler, WE
Hydrodynamic Modelling of Commercial Hall-Heroult Cells.
(1988) Internal report. Aluminium Company of America, Alcoa Laboratories, Alcoa Center PA 15069, USA

Assimacopoulos, D
Wave propagation and non-equilibrium interphase processes in transient two-phase flows.
(1988) Applied Mathematics Modelling, Vol.12, June 1988. Butterworths Fundamental studies.

Ilegbusi, OJ Szekely, J
*** Fluid flow and tracer dispersion in shallow tundishes.
(1988) Steel Research 59 1988, No. 9, pp 399-405

Ilegbusi, OJ Szekely, J
*** Fluid flow phenomena in the generation of boron carbide suspension in magnesium melts.
(1988) Ceram. Engineering Science proceedings 9 (7-8), pp 1079-1086.

Kler, SC Lavin, JT
Simulation of flow on distillation trays.
(1988) BOC Cryoplants Ltd, UK.

Rhodes, N Wilkinson, TS
The prediction of steam-condenser and turbine-exhaust performance.
(1988) HTD Vol. 104, pp 225-230. Published by ASME

Svensson, U
Numerical modelling of environmental two-phase flows.
(1988) Modelling and Solution Techniques for Multiphase Flow, pp 123-148. Harwood Academic Publishers

Wu, JZ

The application of the two-fluid model of turbulence to ducted flames.

PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol. 1 No.1 pp8-58. Published by CHAM

Malin, MR Parry, JD

Turbulent heat and momentum transfer in rough tubes

(1988) PHOENICS Journal of Computational Fluid Dynamics and Its Applications, Vol. 1 No. 1 pp59-80. Published by CHAM

Brown, GA Cheng, CY Borgia, JA Rosenthal, E Blaylock, J

CFD analysis of flow in a heavy-duty filter.

(1988) Presented at the 2nd International Conference on Supercomputing in the Automotive Industry, Seville, Spain. October 25-28.

Lopez de Sertosano, M Lahey, RT Drew, DA

The prediction of two-phase turbulence and phase distribution phenomena using a Reynolds stress model.

(1988) Presented at ASME Winter Annual Meeting – Chicago November 1988. Publishers ASME.

Villasenor, F Radosavljevic, D

Numerical simulations of flat-plate turbulent boundary layer in supersonic flow.

(1988) PHOENICS Journal on Computational Fluid Dynamics and Its Applications Vol. 1 No.2 pp141-213. Published by CHAM.

Rhodes, N

Prediction of smoke movement: an overview of field model validation.

(1988) Publication: ASHRAE Transactions 1988 Vol. 95, Part 1

Malin, MR Sanchez, L

One-dimensional steady transonic shocked flow in a nozzle.

(1988) PHOENICS Journal of Computational Fluid Dynamics and Its Applications Vol.1 No. 2 pp214-246. Published by CHAM

Van Dijk, GJ Lamers, A van Steenhoven, AA

Comparison of the PHOENICS package to a finite element package for simple convection-diffusion problems.

(1988) PHOENICS Journal of Computational Fluid Dynamics and Its Applications Vol.1 No. 2 pp247-269. Published by CHAM

Ilegbusi, OJ Szekely, J

***Mathematical modelling of the electromagnetic stirring of molten metal-solid.

(1988) Transactions ISIJ Vol. 28, pp97-103.

Kier, SC Lavin, JT

Computer simulation of gas distribution in large shallow packed absorbers.

(1988) BOC Cryoplants Limited Uk.

Friebel, WC

Numerische simulation von kingwirbein.

(1988) VDI- Verlag Reihe 7: Stromungstechnik NR136 (German Text)

Pericleous, KA Worthington, D Cox, G

Smoke spread simulation in a covered sport stadium.

(1988) A two Day Seminar and Workshop Powerful Computing Systems for Fluid Flow Applications, London June.

Lightfoot, RB Pericleous, KA Rhodes, N

Mathematical modelling in the energy from biomass programme.

(1988) Biomass for Energy and Industry, 5th Edition EC Conference, Naples Italy.

Crespo, A Hernandez, J Luken, E

Validation of turbulence models of wind turbine wakes.

(1988) Proceedings of Wind Energy Conference, Herning, Denmark.

Truelove, JS

***Three-dimensional radiation in absorbing-emitting-scattering media using their discrete-ordinates approximation.

(1988) J Quant Spectrosc Radiant Transfer Vol. 39 No.1 pp27-31.

Dawes, WN

Development of a 3D navier stokes solver for application to all types of turbomachinery.

(1988) Presented at the Gas Turbine and Aeroengine Congress, Amsterdam, The Netherlands. June 6-9.

Rosten, HI Worrell, JK

Provision of monitor print-out for more than one location.

(1988) PHOENICS Journal of Computational Fluid Dynamics and Its Applications Vol.1 No. 2 pp270-281. Published by CHAM.

Moodie, JP Davis, MPO Cross, M

Numerical modelling for the analysis of direct smelting processes.

(1988) New Ironmaking and Steelmaking Processes. 7th Process Technology Conference Proceedings.

Leitner, A

Analysis of fluid flow in the nozzle of IN thruster: comparison between the codes: PHOENICS and VNAP2 rafael-ADA.

(1988) 22nd Israel Conference on Mechanical Engineering, Beer Sheva, June 1988. Written in Hebrew.

Rosten, HI Worrell, JK

Generalised wall functions for turbulent flow.

(1988) The PHOENICS Journal of Computational Fluid Dynamics and its Applications, Vol.1, No. 1 pp, 81-109

Iwan, J Alexander, D Ouazzani, J Rosenberer, F

*** Response of convective-diffusive transport to spatial and temporal variations in effective gravity.

(1988) To be published in the Proceedings of the 3rd International Conference on Drop and Bubbles, Monterey, California, USA. September

Ono, N Kida, M Arai Y Sahira, K

A thermal analysis on double-crucible method in continuous silicon CZ technology.

(1988)

Maeda, T

Research work for special topics on CFD – Non-Newtonian Fluid, MHD, moving interface.

(1988) Presented at the 10th Cray User Group Meeting, Tokyo, September.

Naik, S Probert, D

Optimal designs for achieving maximum performances of plate-pin heat-exchangers.

(1988) Presented at the Conference of European Federation of Energy, 12-14 October, Grenoble, France

Ilegbusi, OJ Szekeley, J

The engulfment of particles by electromagnetically-stirred melt.

(1988) J Colloids and Interface Sciences, Vol. 125, No.2, pp 567-574

Malin, MR

Prediction of radially spreading turbulent jets.

(1988) AIAA Journal, Vol. 26, No. 6, pp 750-752.

Faghri, A Parvani, S

Numerical analysis of laminar flow in a double-walled annular heat pipe.

(1988) Published by American Institute of Aeronautics and Astronautics.

Hibbert, SE Markatos, NC Voller, VR

Computer simulation of moving-interface convective, phase-change processes.

(1988) Published in the International Journal of Heat and Mass transfer, Vol. 31, No. 9, pp 1785-1795.

Morton, KW Childs, PN

Characteristic galerkin methods for hyperbolic systems

(1988) Proceedings of the 2nd International Conference on Nonlinear Hyperbolic Problems, Aachen, FRG, March 14-18.

Fung, MTR Hornby, RP

Numerical modelling of conjugate heat transfer in an advanced gas-cooled reactor fuel standpipe.

(1988) Proceedings of the 3rd European Conference on Mathematics in Industry, August 28-31, Glasgow.

Clegg, DB Richmond, AN

(1988) Numerical solution of ordinary differential equations for initial value problems

Cooper, RK

Successive over-relaxation on a transputer network.

(1988)

Cooper, RK

Computational Fluid Dynamics on a transputer network final report.

(1988)

Barrett, JW Moore, G Morton, KW

Optimal recovery in the finite-element method, part 2: defect correction for ordinary differential equations.

(1988) IMA Journal of Numerical Analysis 8, pp 527-540

Barrett, JW Moore, G Morton, KW

Optimal recovery in the finite-element method, part. 1: recovery form weighted L2 fits.

(1988) IMA Journal of Numerical Analysis 8, 149-184

Morton, KW Priestley, A Suli, E

Stability of the lagrange-galerkin method with non-exact integration.

(1988) Mathematical modelling and numerical analysis, Vol. 22, No. 4, pp 625-653

Mandel, J McCormick, SF Dendy, JR

Proceedings of the fourth copper mountain conference on the multigrid methods

(1988)

Tennant, PA

A numerical analysis of the influence of internal nozzle geometry on diesel fuel injection. * For copies apply direct to Purdue University

(1988) Thesis Purdue University, W Lafayette Indiana, USA

Glynn, DR Rawnsley, Sm

Numerical prediction of a horseshoe vortex.

(1988) Advances in Underwater Technology, Ocean Science and Offshore Engineering, Vol. 15, Technology Common to Aero and Marine Engineering.

Truelove, JS Williams, RG

Coal combustion models for flame scaling.

(1988) 22nd Symposium on Combustion – The Combustion Institute 1988, pp 155-164

King, RC Apellian. MR Armstrong, RC Brown, RA

Numerically stable finite element techniques for viscoelastic calculations in smooth and singular geometries.

(1988) Journal of Non-Newtonian Fluid Mechanics 29, pp 147-216, Elsevier Science BV, Amsterdam.

Prakash, C

Application of computational fluid dynamics for analyzing practical electronics cooling problems.

(1988) CHAM NA USA

Glynn, DR Jal, EN Milford, CM

Powerful computing systems for fluid flow applications.

(1988) Biomass for Energy and Industry, 5th Edition EC Conference, Naples, Italy

Tansley, GD Edwards, RJ Gentle, CR

Role of computational fluid mechanics in the analysis of prosthetic heart valve flows.

(1988) Med. Biol. & Computing 1988 Vol.26, pp 175-185. IFMBE.

Huhtanen, R

Numerical fire modelling of a turbine hall.

(1988) The second International Symposium on Fire Safety Science, Tokyo Japan. Hemisphere Publishers Washington USA, June.

1987

Ilegbusi J O, Spalding D Brian

Application of a Two-Fluid Model of Turbulence to Turbulent Flows in Conduits and Free Shear-Layers.

(1987) Proceedings 6th International Conference on PhysicoChemical Hydrodynamics

PhysicoChemical Hydrodynamics: an International Journal, Vol 9, no 1/2, pp 161 – 181

Qin H Q and Spalding D Brian

Flow in a Toroidal Vortex.

(1987) Proceedings 6th International Conference on PhysicoChemical Hydrodynamics
PhysicoChemical Hydrodynamics: an International Journal, vol 9, no. 1/2, pp 315 - 343

Spalding D Brian, Villesenor F

Numerical Simulation of Kelvin-Helmholtz Instability in a Stratified Shear Flow.

(1987) Proceedings 6th PhysicoChemical Hydrodynamic Conference vol 90 no 1/2, pp 379 – 386.

Malin M R, Spalding D Brian

Flow and Heat Transfer in Two-Dimensional Turbulent Wall Jets and Plumes.

(1987) PhysicoChemical Hydrodynamics: an International Journal, vol 9, no 1/2, pp 237 - 274

Proceedings 6th International Conference on PhysicoChemical Hydrodynamics

Ilegbusi J O, Spalding D Brian

A Two-Fluid Model of Turbulence and Its Application to Near-Wall Flows.

(1987) Proceedings 6th International Conference on PhysicoChemical Hydrodynamics

PhysicoChemical Hydrodynamics: an International Journal, vol 9, no 1/2, pp 127-160

Spalding, D.B., Villasenor, F.

numerical simulation of kelvin-helmholtz instability in a stratified shear flow.

(1987) *PCH. Physicochemical hydrodynamics*, 9 (1-2), pp. 379-386.

Spalding, DB Wu, JZ

The application of the two-fluid model of turbulence to flows over a backward-facing step.

(1987) Presented at the 2nd International PHOENICS User Conference, November, Published in Proceedings, CHAM.

Tam, L.T., Przekwas, A.J., Muszynska, A., Hendricks, R.C., Braun, M.J., Mullen, R.L.

Numerical and analytical study of fluid dynamic forces in seals and bearings.

(1987) *American Society of Mechanical Engineers, Design Engineering Division (Publication) DE*, 2 (pt 2), pp. 359-370.

Brown, G.A., Cheng, C.-Y., Borgia, J.A., Conti, K.A., Rosenthal, E., Sarkar, K., Eichenbaum, S.

Pressure drop and flow characteristics for clean heavy-duty air cleaner

(1987) *SAE Technical Papers*, .

Coleman, Michael, Sammakia, Bahgat G., Agonafer, Dereje

unsteady buoyancy induced flow in an enclosure.

(1987) *American Society of Mechanical Engineers (Paper)*, 10 p.

Anon

flow modelling over twin-nozzle afterbodies using phoenics.

(1987) *Aircraft Engineering and Aerospace Technology*, 59 (5), pp. 2-4, 6.

Davidson, L., Olsson, E.

Calculation of age and local purging flow rate in rooms

(1987) *Building and Environment*, 22 (2), pp. 111-127.

Lofdal, L.

Flow measurements in a radial fan and other turbomachinery bladings using hot-wires. Cascade flow using PHOENICS.

(1987). Hydraulic analysis of pipeline systems.

(1987) *HYDRO DELFT*, (75 , Apr. 1987), pp. 5-6.

Wahnsiedler, W.E.

hydrodynamic modeling of commercial hall-heroult cells.

(1987) *Light Metals: Proceedings of Sessions, AIME Annual Meeting (Warrendale, Pennsylvania)*, pp. 26-287.

Baldwin, S.J., White, P.R.S., Al-Daini, A.J., Davenport, C.J.

Investigation of the gas side flow field in multilouvred ducts with flow reversal.

(1987).

Ilegbusi, O.J., Szekely, J.

melt stratification in ladles.

(1987) *Transactions of the Iron and Steel Institute of Japan*, 27 (7), pp. 563-569.

Grant, A.D., Moustafa, A.A., Reeves, P.

Prediction of wind loading on structures.

(1987).

Pericleous, K.A., Patel, M.K.

source-sink approach in the modelling of stirred reactors.

(1987) *PCH. Physicochemical hydrodynamics*, 9 (1-2), pp. 279-297.

Lowry, S.A., Keeton, L.W.

Space shuttle main engine high pressure fuel pump aft platform seal cavity flow analysis.

(1987) *NASA Technical Paper*, 137 p.

Hutchings, B., Iannuzzelli, R.

Taking the measure of fluid dynamics software.

(1987) *MECH. ENGINEERING.*, 109 (5, May 1987), pp. 72-76.

Hemstrom, B Svensson, U

Mathematical simulation of steady three-dimensional flow in a steam generator.

(1987) Presented at the IAHR congress, Lausanne, Switzerland

Rhee, S Szekely, J Ilegbusi, OJ

*** On the three-dimensional transport phenomena in CVD processes.

(1987) *Journal on the Electrochemical Society* Vol. 134, No.10

Verlarde, MG Garcia-Ybarra, PL Castillo, JL

Interfacial oscillations in benard-marangoni layers

(1987) *PCH Physico Chemical Hydrodynamics*, Vol. 9, No. ½, pp 387-392

Ludwig, JC Tacke, KH

Steel flow and inclusion separation in continuous casting tundishes.

Presented at the Mathematical Models for Metals and Materials Application, 12-14 October Sutton Coldfield.

Bruzzone, D Caprino, G

An application of the numerical techniques to predict the flow for hull form design.

(1987) *Int. Symposium on Advanced Research for Ships and Shipping in the Nineties*, Genoa, Italy

Bruzzone, D Caprino, G

La scia tridimensionale di carena attraverso una soluzione combinata strato limite sottile ed equazioni ellittiche di Reynolds.

(1987) Nav 86 Palermo, Italy October

Birch, NT

Navier-Stokes prediction of transition, loss and heat transfer in a turbine cascade.

(1987) Presented at the Gas Turbine Conference and Exhibition, Anaheim, California, May 31-June 4

Pericleous, KA

Mathematical simulation of hydrocyclones

(1987) Applied Math, Modelling Vol. 11/4, pp 242-255 August, Butterworth.

Rhodes, N Pericleous, KA Drake, SN

The prediction of hydrocyclone performance with a mathematical model.

(1987) 3rd International Conference on Hydrocyclones, Oxford.

Malin, MR

The decay of mean and turbulent quantities in vertical forced plumes.

(1987) Applied Math, Modelling CVol. II. Pp 301-314, Butterworth

Bourgeois, T Bui, RT Charette, A Kocaefer, Y Stevens, W Dervede, E

Simulating the combustion chamber of an aluminium casting furnace.

(1987) Presented at the AIME 88 Annual Meeting, Phoenix, Arizona, January 1987

Shah, P Markatos, NC

On the 2d and 3d computer analysis of turbulence internal combustion engines

(1987) Presented at the ASME Energy Sources Technology Conference and Exhibition, Dallas, Texas. ASME paper 87 FE-12

Markatos NC, Pericleous, KA Simitovic, R

A hydrometeorological three-dimensional model of thermal energy releases into environmental media

(1987) Int. Journal for Numerical Methods in Fluids, Vol. 7. Pp 263-276. J Wiley & Sons

Markatos, NC Pericleous, KA Simitovic, R

A hydrometeorological three-dimensional model of thermal energy releases into environmental media.

(1987) Int. Journal for Numerical Methods in Fluids, Vol.7, pp 263-276. J Wiley & Sons

Prakash, C

Prediction of some complex multi-dimensional two-phase flow phenomena using the PHOENICS code (1) phase distribution in ducts (2) phase separation in tee junctions (3) condensation in stratified flow.

(1987) Published in the 2nd International PHOENICS User Conference proceedings.

Glynn, DR Ludwig, JC Rhodes, N

Prediction of the three-dimensional flow over an aircraft afterbody.

(1987) Presented at the AEROTECH 87 Conference (IMECHE) Birmingham., October

Prakash, C

Prediction of condensation in stratified flow (data set-16) using the PHOENICS code.

CHAM NA, Huntsville, Alabama, USA

Gidhagen, L Nyberg, L Svensson, U

A model system for marine circulation studies, part a: basic principals and comparisons with analytical solutions and part b: applications to the Baltic system

(1987) Computer Aided Fluid Engineering, Sweden. Presented at the 2nd International PHOENICS User Conference, November

Maeda, T Murata, H

A survey note on magnetic field analysis by PHOENICS

(1987) Century Research Centre, Japan. Presented at 2nd International PHOENICS User Conference, November. Published in proceedings CHAM

Sukarie, GJ Vitzhum KM

Automatic model generation for analysis of flow around a ship's hull

(1987) IABG Germany. Presented at the 2nd International PHOENICS User Conference, November. Published in Proceedings, CHAM.

Rutberg, J Jojansson, G Olsson, E

Calculation of the flow field behind a bluff body.

(1987) Chalmers University, Sweden Presented at the 2nd International PHOENICS User Conference, November, Published in Proceedings, CHAM.

Hoggkvist, K Taesler, R

Pressure distribution on a small-scale house-numerical simulation of wind tunnel experiments.

(1987) The Swedish Meteorological and Hydrological Institute, Norrkoping, Sweden. Presented at the 2nd International PHOENICS User Conference, November, Published in Proceedings, CHAM.

Van Essen, D Kupers, G Mes, H

Thermal Hydraulic modelling studies on heat exchanging components.

(1987) Notes on Numerical Fluid Mechanics, Vol. 17, Ed. P Wesselng. Published Griedr. Vieweg & Sohn VmbH, raunschweig.

Sampath, S Ganesan, V

Numerical prediction of flow and combustion in three-dimensional gas turbine combustors.

(1987) Journal of the Institute of Energy (15) March

Turbulent ship airwake environment analysis

(1987) NADC Warminister PA USA.

Presented at the 2nd International PHOENICS User Conference, November, Published in Proceedings, CHAM.

Savvides, CN Coleman, A

Pulsatile flow through a step expansion.

Presented at the 2nd International PHOENICS User Conference, November.

Sharp, AM

A theoretical and experimental investigation of the flow through two mixed flow fan rotors.

(1987) Presented at the 2nd International PHOENICS User Conference, November.

Szekely, J Ilegbusi, OJ El-Kaddah, N

The mathematical modelling of complex fluid flow phenomena in tundishes.

(1987) PCH PhysicoChemical Hydrodynamics, Vol. 9 no. ¾ pp453-472 1987. Published by Pergamon Press

Galea, ER Markatos, NC

Prediction of fire development in aircraft.

(1987) Thames Polytechnic. Presented at the 2nd International PHOENICS User Conference, November, Published in Proceedings, CHAM.

Kirkcaldy, D Phelps, PJ Rhodes, N

Prediction of fluid behavior during reactor transient 1D and 3D models

(1987) Proc. Int. Symposium and Workshop, Schilersee, West Germany, October

Jain, SK Mukerjee, T

Multidimensional numerical analysis of port flow in unit fuel injector of diesel engine.

(1987) Proc. Int. Symposium and Workshop, Schilersee, West Germany, October

Spalding, DB

Computer simulation of turbulent combustion in reciprocating engines

(1987) CFDU Imperial College, London. Presented at the 2nd International PHOENICS User Conference, November,

Pericleous, KA Clark, IW Brais, N

The modelling of thermal NOx emissions in combustion and its applications to burner design.

(1987) Tampere University of Technology, Finland. Presented at the 2nd International PHOENICS User Conference, November, Published in Proceedings, CHAM.

Ahlstedt, H Oksanen, A Karvinen R

Modelling of swirling flows and heavy fuel combustion

(1987) Tampere University of Technology, Finland. Presented at the 2nd International PHOENICS User Conference, November, Published in Proceedings, CHAM.

Kjaldman, L

Numerical simulation of dust explosions

(1987) Technical Research Centre of Finland. Presented at the 2nd International PHOENICS User Conference, November. Published in Proceedings, CHAM

Greaves, JRA

The development of the 3-dimensional motor vehicle aerodynamics computer model and its application to the Rover 800 shape.

(1987) Gaydon Technology Ltd, Warwickshire. Presented at the 2nd International PHOENICS User Conference, November, Published in Proceedings, CHAM.

Glynn, DR Kalsi, HS

Numerical prediction of flow in a fluidic oscillator.

(1987) Presented at the 2nd International PHOENICS User Conference, November.

Richards, PJ Miller, C

Simulation of wind flow over artificial windbreaks.

(1987) University of Auckland, New Zealand. Presented at the 2nd International PHOENICS User Conference, November, Published in Proceedings, CHAM.

Mendrinou, D Freeston, DH Mallinson, GD

A preliminary application of PHOENICS to the analysis of geothermal wells

(1987) Presented at the 2nd International PHOENICS User Conference, November, Published in Proceedings, CHAM.

Mainini, F

Calculation of three-dimensional trans-sonic and viscous flow in a steam turbine exhaust hood.

(1987) Presented at the 42nd National Congress ATI, Genova, September, Italy

Ilegbusi JO Spalding, DB

Application of a two-fluid model of turbulence to turbulent flows in conduits and free shear-layers.

(1987) Proceedings of PCH 6th International Conference, Oxford. PCH vol.9, No. 1/2, pp 161-181

Ilegbusi, JO

A two-fluid model of turbulence-application to near-wall flows.

(1987) Proceedings of PCH 6th International Conference, Oxford. PCH Vol.9, No.1/2, pp 127-160, Pergamon Press.

Spalding, DB Villasenor, F

Numerical simulation of Kelvin-helmholtz instability in a stratified shear flow.

(1987) Proceedings of PCH 6th International Conference, Oxford. PCH Vol. 9, No. 1/2, pp 379-386, Pergamon Press

Qin, HQ Spalding, DB

Flow in a toroidal vortex.

(1987) Proceedings of PCH 6th International Conference, Oxford. PCH Vol.9 No. 1/2, pp 315-343. Pergamon Press

Maeda, T Murate, H

An approach to visco-elastic flow simulation in rotating cylinders.

(1987) Proceedings of PCH 6th International Conference, Oxford. PCH vol.9, No. 1/2, pp 229-236. Pergamon Press

Kostamis, P Richards, CW Markatos, NC

Numerical simulation of two-phase flows with chemical reaction and radiation.

(1987) Proceedings of PCH 6th International Conference, Oxford. PCH Vol.9, No. 1/2, pp 219-228, Pergamon Press

Koh, PTL Markatos, NC Cross, M

Numerical simulation of gas-stirred liquid baths with a surface.

(1987) Proceedings of PCH 6th International Conference, Oxford. PCH Vol.9, No. 1/2, pp 197-208, Pergamon Press

Shah, P Markatos, NC

Computer simulation of turbulence in internal combustion engines.

(1987) International Journal Numerical Methods Fluids, Vol. 7, pp 927-952, J Wiley & Sons

Shaw, CT

Evaluation of PHOENICS for predicting internal and external flows.

(1987) Jaguar Cars Ltd, Coventry. Presented at the 2nd International PHOENICS User Conference, November. Published in Proceedings, CHAM.

Lightfoot, RB Phelps, PJ Wilkinson, TS

The development of advanced design, models for condenser and turbine exhausts.

(1987)

Presented at the 2nd International PHOENICS User Conference, November. Published in Proceedings, CHAM.

Bjornbom, P

A mathematical modelling of an air electrode according to the 041 concept.

(1987) Proceedings of the International Seminar on Fuel Cell Technology and Applications. The Haag, Holland
October

Tam, Lt Przekwas, AJ Mukerjee, T Costes, NC

A multidomain global modelling technique for analysis of space shuttle main engine.

(1987) Proceedings of AIAA/SAE/ASME/ASEE 23rd Joint Propulsion Conference, June 29-July 2, San Diego,
California

Tam, LT

A numerical solution algorithm for solving equilibrium and non-equilibrium chemistry in laminar and
turbulent reacting flows.

(1987) Proceedings of AIAA/SAE/ASME/ASEE 23rd Joint Propulsion Conference, June 29-July 2, San Diego,
California

Kannapel, MD Przekwas, AJ Singhal, AK Costes, NC

Liquid oxygen sloshing in space shuttle external tanks.

(1987) Proceedings of AIAA/SAE/ASME/ASEE 23rd Joint Propulsion Conference, June 29-July 2, San Diego,
California

Scwarz, MP Philip, DK

Turbulent flow in a 20kg bath of molten pig iron with bottom-injected nitrogen.

(1987) Proceedings of the 2nd International PHOENICS User Conference, November.

Castrejon. A

The pioneering use of PHOENICS in Mexico

(1987) Proceedings of the 2nd International PHOENICS User Conference, November.

Prakash, C

Prediction of some complex multi-dimensional two-phase flow phenomena using the PHOENICS code (1)
phase distribution in ducts (2) phase separation in tee junctions and (3) condensation in stratified flow.

Proceedings of the 2nd International PHOENICS User Conference, November.

Mason, D Markatos, NC Reed, Ar

Numerical simulation of the flow of gas-solids suspension acceleration regions of pipelines.

(1987) Proceedings of the 2nd International PHOENICS User Conference, November.

Mukerjee, T Tam, LT Jain, SK Costes, NC

A multidomain and multidimensional numerical analysis of flow in fuelside preburner, high pressure turbine,
hot gas manifold and main injector assembly of the space shuttle main engine.

(1987) Proceedings of AIAA/SAE/ASME/ASEE 23rd Joint Propulsion Conference, June 29-July 2, San Diego,
California

Voller, VR Prakash, C

A fixed grid numerical modelling methodology for convection-diffusion mushy region phase-change
problems.

(1987) International Journal of Heat and Mass Transfer Vol. 30, No.8, pp1709-1719

Friebel, WC Rath, HJ

The formation and behavior of laminar vortex rings.

(1987) Proceedings of the 2nd International PHOENICS User Conference, November.

Maltson, JD Wilcock, D

Laminar flow and heat transfer in corrugated (rippled) ducts.

(1987) Proceedings of the 2nd International PHOENICS User Conference, November.

Simard, C Bui, RT Potocnik, V

Solving moving boundary problems using PHOENICS with effective thermal properties.

(1987) Proceedings of the 2nd International PHOENICS User Conference, November.

1986

Srinivasan K, Spalding D Brian

The Stream Function Coordinate System for Solution of One-Dimensional Unsteady Compressive Flow Problems

(1986) Applied Mathematical Modelling, Butterworth and Company (Publishers) Limited, vol 10, pp 278-284.

Spalding D Brian, Wu J Z

Numerical Studies of Propagating Flames Exhibiting the Landau and Rayleigh-Taylor Instabilities.

PhysicoChemical Hydrodynamics: an International Journal, vol 7, no 5/6, pp 353-384.

Spalding D Brian

Two Fluid Model of Turbulence Applied to Combustion Phenomena

(1986) AIAA Journal, vol 24, no. 6, pp 876-884

Rosten H I, Spalding D Brian

PHOENICS-84 and Beyond.

(1986) Numerical Simulation of Fluid Flow and Heat and Mass Transfer Processes,

Proceedings 1st International PHOENICS Users Conference. Springer Verlag Berlin, pp 3-29

Spalding, D.B., Wu, J.Z.Y.

Numerical studies of propagating flames exhibiting the landau and rayleigh-taylor instabilities.

(1986) *PCH. Physicochemical hydrodynamics*, 7 (5-6), pp. 353-384.

Rawnsley, S.M., Tatchell, D.G.

Application of the phoemics code to the computation of the flow around automobiles

(1986) Presented at the SAE International Congress and Exposition, Michigan, February 1986. SAE paper 860217

Schwarz, M.P., Koh, P.T.L.

Numerical modelling of bath mixing by swirled gas injection.

(1986) pp. 1-6. 17.

Militzer, J.

Numerical prediction of the fully developed two-phase (air-solids) flow in a pipe.

(1986) pp. 173-183.

Mes, H., Van Essen, D., Kirkcaldy, D., Phelps, P.J.

PHOENICS code thermal hydraulic analysis of a prototype LMFBR straight tube steam generator.

(1986) Presented at the ASME Winter Annual Meeting, California November 1986 ASME A Paper 86-WA/NE-5

Leefe, S.E., Tansley, G.D., Gentle, C.R.

Pulsatile flow testing of prosthetic heart valve conduits.

(1986) pp. 15-19.

Singhal, A.K., Tam, L.T., Bachtel, F., Vaniman, J.

Thermal environment around the space shuttle with hot-gas jets for ice suppression.

(1986) *Journal of Spacecraft and Rockets*, 23 (6), pp. 547-553.

McConnell, P.M., Owens, S.F., Kamin, R.A.

Prediction of fuel freezing in airplane fuel tanks of arbitrary geometry - part 1.

(1986) *Aircraft Engineering and Aerospace Technology*, 58 (9), pp. 20-23.

Rhodes, Norman

Streamlined solutions to fluid flow problems.

(1986) *CME. Chartered mechanical engineer*, 33 (4), pp. 56-57.

Han, S.H., Bankoff, S.G.

An unsteady one-dimensional two-fluid model for fuel-coolant mixing in an LWR meltdown accident

(1986) *Nuclear Engineering and Design*, 95 (C), pp. 285-295.

Rawnsley, S.M.

Application of the PHOENICS code to the computation of the flow around automobiles.

(1986). Presented at the 1986 SAE International Congress and Exposition, Michigan February. SAE paper 860217

Langsholt, M., Thomassen, D.

Computer modelling of fluid flow through orifices.

(1986) *IN: FM 80'S, FLOW MEASUREMENT IN THE MID 80'S INT. CONF., (EAST KILBRIDE, U.K.: JUN. 9-12, 1986), 2*, East Kilbride, U.K., Nat. Engng. Lab., 1986, Session 7, Paper 7.2, 16 p.

Paterson, DA Apelt, CJ

Computatuon of wind flows over three-dimensional building

(1986) *Journal of Wind Engineering and Industrial Aerodynamics* 24, pp 193-213. Elsevier Science Publishers BV Amsterdam

Keeton, LW Habchi, SD Singhal, AK Srikantiah, G

Thermal hydraulic analysis/data comparisons of two-tube steam generators using the ATHOS3 code.

(1986) Presented at the ASME Winter Annual Meeting Anaheim California

Mukerjee, T Przewas, AJ Holland, RS Costes, NC

Numerical analysis of the three-deimensional flow in the main injector of the space shuttle main engine.

(1986) Presented at AIAA/ASME/SAE/ASEE 22nd Joint Propulsion Conference, Huntsville, Alabama, June .

Truelove, JS

Prediction of the near-burner flow and combustion in swirling pulverized-coal flames.

(1986) 21st Symposium on Combustion. The Combustion Institute 1986

Pericleous, KA Rhodes, N

The hydrocyclone classifier-a- numerical approach.

(1986) *Onternational Journal of Mineral Processing* 17, pp 23-43

Markatos, NC Pericleous, KA

A two-fluid model of turbulence applied to simulation of fires

(1986) *Numerical Mathematics and Applications*

Murthy, SNB Warner, CF Yan, J Lafayette, W

Ignition and flame stability of fuel jet through blockers in cross flow.

(1986) AIAA/ASME/SAE/ASEE 22 Joint Propulsion Conference, Huntsville, Alabama, June 16-18

Markatos, NC Cox, G

A novel approach to the field modelling of fire.

(1986) PHC PhysicoChemical Hydrodynamics, Vol. 7, No. 2/2, pp 125-143

Leefe, SE Edwards, RJ Tansley, GD Gentle, CR

Investigation into leakage design in prosthetic heart valves.

(1986) Proceedings 26th Annual Scientific Conference of the Biological Engineering Society, Glasgow.

Tansley, GD Edwards, RJ Leefe, SE Gentle, CR

Ball occlude instability during forward flow through prosthetic heart valve conduits.

(1986) Proceedings of X111 Annual Meeting of European Society for Artificial Organs Avignon France 4 (2), pp 169-171

Singhal, AK Keeton, LW Majumdar, AK Mukerjee, T Johnson, RS

An improved mathematical formulation for the computations of flow distribution in manifolds for compact heat exchangers

(1986) Presented at the ASME Winter Annual Meeting Anaheim, California.

Keeton, LW Singhal, AK Irani, A

ATHOS3 code analysis of tube plugging effects on the thermal-hydraulic characteristics of a one-through steam generator.

(1986) Presented at the ASME Winter Annual Meeting, Anaheim, California

Pericleous, KA Rhodes, N

Use of computational fluid dynamics in analysis and design

(1986) Presented at Pira, Paper and Board Division Seminar on Recent Developments in the use of Wastepaper in the Manufacturing of Paper and Board, Leatherhead, Surrey

Larsson, R

Coriolis generated secondary currents in channels

(1986) Journal of Hydraulic Engineering Vol. 112, No.8, pp 750-767 August

Przekwas, AJ Singhal, AK Tam, T Davidian, K

Computational simulation of liquid rocket injector anomalies

(1986) Presented at AIAA/ASME/ASEE 22nd Joint Propulsion Conference, Huntsville, Alabama, USA

Szekely, J El Kaddah, N

The mathematical modelling of three-dimensional heat flow, fluid flow and turbulence phenomena in tundishes.

(1986) Internal report. Massachusetts Institute of Technology (Szekely) and Dept. of Metallurgical Engineering of University of Alabama (Kaddah)

Porsch, HCF Poth, J

Vergleich zwischen berechnung und messung der zweidimensionalen umstroemung eines rennfahzeug-mittelschnitts.

(1986) Internal report. VDI-Tagung Fahrzeugtechnik, Berechnung in Automobilbau, 6-7 November, Wurzburg

Markatos, NC

The mathematical modelling of turbulent flows.

(1986) Appl. Math Modelling, Vol.10, pp 190-220 June

Sawada, I Kitamura, T Ohashi, T

The mathematical modelling of the coupled reactions in the pre-treatment of molten iron by power injection.

(1986) Presented at SCANINJECT Conference, Lulea, Sweden, June

Larsson, R

Coriolis generated secondary currents and their effects on turbulent channel flow

(1986) WREL Report Series A No 143

Przekwas, AJ Edwards, JP Gross, K

SSME thrust chamber modelling with navier-stokes equations.

(1986) Presented at AIAA/ASME/ASEE 22nd Joint Propulsion Conference, Huntsville, USA

Curtis, WJ

Cooling of the ISIS target.

(1986) Rutherford Appleton Laboratory Report No RAL 86-014

Yamada, T Inoue, T Yoshimatsu, A Hiramatsu, T Konishi, M

In-cylinder gas motion of multivalve engine-three dimensional numerical simulation.

(1986) Presented at the 1986 International Congress and Exposition, Michigan February 1986. SAE paper 869465

Prakash, C Singhal, AK Shafer, C

Thermofluid analysis of the SSME preburner using a gas-gas diffusion model for oxygen and hydrogen combustion at supercritical pressures.

(1986) Presented at AIAA/ASME/ASEE 22nd Joint Propulsion Conference, Huntsville, Alabama, June.

Mukerjee, T Singhal, AK

Numerical modelling of unsteady single-and two-phase flow through a round pipe with an orifice meter

(1986) paper presented at Symposium on Measuring and Metering of Unsteady Flows 1986 ASME WAIM Anaheim CA, DEC 7-12

1985

Spalding D Brian

Two Fluid Models of Turbulence.

(1985) Theoretical Approaches to Turbulence, Workshop, NASA Langley Research Centre, October 1984
Springer Verlag, New York and Berlin

Spalding D Brian

Computational Fluid Dynamics and its Application to Liquid-Atomisation and Spray Systems.

(1985) CLASS-85, P Eisenklam and A Yule (Editors)

Institute of Energy, pp IP/3/1-18

Spalding D Brian

The Computation of Flow Around Ships with Allowance for Free-Surface and Density-Gradient Effects.

(1985) 1st Intercontinental Maritime Simulation Symposium and Mathematical Modelling Workshop
Springer Verlag, New York and Berlin

Spalding, DB

The computation of flow around ships with allowance for free-surface and density-gradient effects

(1985) Proceedings of the 1st International Maritime Simulation Symposium, Munich, pp, 101-113

Rosten, HI Spalding, DB

PHOENICS 84 and beyond.

(1985) Presented at the 1st International PHOENICS User Conference, Dartford Kent. Proceedings Engineering 18, pp291-301

Ilegbusi J O, Spalding D Brian

Numerical Calculation of the Cold-Flow Characteristics of a Bluff-Body Flame Stabilizer.

(1985) Modelling, Simulation and Control, vol 3, no. 1, pp 31-49

Malin, MR Rosten, HI Spalding, DB Tatchell, DG

Application of PHOENICS to flow around ship's hulls

Presented at the 2nd International Symposium on Ship Viscous Resistance, Goteborg, Sweden

Spalding D Brian

The Numerical Computation of Multiphase Flows

(1985) Industrial Fluid Flow Computations, A W Bush and M J O'Carroll (Editors).

Proceedings Polymodel 8 Conference, EMJOC Press, pp 1545-174

van Essen, D.

Experimental results of the 85 mwth snr-300 intermediate heat exchanger.

(1985) *American Society of Mechanical Engineers, Heat Transfer Division, (Publication) HTD*, 51, pp. 1-7.

Kirkcaldy, D., Phelps, P.J., van Essen, D.

PHOENICS code thermal hydraulic analysis of the snr-300 ihX.

(1985) *American Society of Mechanical Engineers, Heat Transfer Division, (Publication) HTD*, 51, pp. 9-16.

Anon

Thermal hydraulics and effects of nuclear steam generators and heat exchangers.

(1985) *American Society of Mechanical Engineers, Heat Transfer Division, (Publication) HTD*, 51, 120 p.

Rhodes, N., Al-Sanea, S.A., Pericleous, K.A.

Use of the fluid flow program PHOENICS in engineering design.

(1985) pp. 15. 93-15. 105.

Anon

Research. aerodynamic flow simulation and bluff body design.

(1985) *Automotive Engineer (London)*, 10 (5), pp. 88-89.

Kjaldman, L, Huhtanen, R

Simulation of flame acceleration in unconfined vapour cloud explosions.

(1985) *Valtion Teknillinen Tutkimuskeskus, Tutkimuksia*, 53 p.

Johnson, Allen E., Torok, Dennis

Software for fluid flow and heat transfer analyses of electronic packaging.

(1985) *CIME. Computers in mechanical engineering*, 4 (1), pp. 41-46.

Nallasamy, M.

Critical evaluation of various turbulent models as applied to internal fluid flows.

(1985).

Singhal,AK

A critical look at the progress in numerical heat transfer and some suggestions for improvement.

(1985) *Numerical heat transfer*, 8 (5), pp. 505-517.

Nallasamy, M., Chen, C.P.

Studies on effects of boundary conditions in confined turbulent flow predictions.
(1985).

Kumar, S Hoffman, N Cox, G

Some validation of jasmine for fire in hospital wards.

(1985) Presented at the 1st International PHOENICS User Conference, Dartford, Kent. Proceedings publication
Lecture Notes in Engineering 18, pp 159-170

Mace, ACH Rogerson, JS Smith, AG

Axisymmetric jet expansion into a cylindrical tube

(1985) Presented at the 1st International PHOENICS Conference, Dartford, Kent, Proceedings published Lecture
Notes in Engineering 18, pp 227-238

Svensson, U

PHOENICS in environmental flows. A review of applications at SMHI.

(1985) Presented at the 1st International PHOENICS Conference, Dartford, Kent, Proceedings published Lecture
Notes in Engineering 18, pp 87-96

Larsson, R

*** Coriolis induced secondary currents in channels.

(1985) Presented at the 1st International PHOENICS Conference, Dartford, Kent, Proceedings published Lecture
Notes in Engineering 18, pp 97-107 Springer-Verlag

Nyberg, L

*** Ice formation in a river.

(1985) Presented at the 1st International PHOENICS Conference, Dartford, Kent, Proceedings published Lecture
Notes in Engineering 18, pp 108-121 Springer-Verlag

Olovsson, S Lofdahl, L Olsson, E

*** Flow calculations in a turbine cascade using PHOENICS-BFC

(1985) Presented at the 1st International PHOENICS Conference, Dartford, Kent, Proceedings published Lecture
Notes in Engineering 18,

Verhoeve, M Seppen, JJ Visser, A

*** SISCA: a simulation model of the uniflow scavenging process of two-stroke diesel engines.

(1985) Presented at the 1st International PHOENICS Conference, Dartford, Kent, Proceedings published Lecture
Notes in Engineering 18, pp 45-55

Bochenek, E Kedzuir, F

Simulation of conductive stirring in continuous cast strands with PHOENICS. (1985)

Presented at the 1st International PHOENICS Conference, Dartford, Kent,

Purslow, B Smith AG

*** A comparison of PHOENICS predictions for a buoyant vertical jet with experimental data

(1985) Presented at the 1st International PHOENICS Conference, Dartford, Kent, Proceedings published Lecture
Notes in Engineering 18, pp 204-214

Kawamura, T Kuwahara, K

Direct simulation of a turbulent inner flow by finite-difference method.

(1985) Space/Astronautical Science, (Tokyo) Presented at AIAA 23rd Aerospace Sciences Meeting January 14-17
Reno, Nevada, USA

McConnell, MG Owens, SF Kamin, R

Prediction of fuel freezing in airplane fuel tanks of arbitrary geometry.
(1985) Internal report. The Boeing Company, Seattle, Washington, USA.

Everett, MG Finney, RD Markatos, NC

On the computer simulation of aeration of polluted water
(1985) ASME Winter Annual Meeting, Miami, Florida, USA

Rawsley, S

PHOENICS – a numerical wind tunnel for aerodynamic simulation of road vehicles.
(1985) Automotive Engineering, Vol. 10 No. 5, October/November 1985

El Kaddah, N Szekely, J

Three-dimensional model of fluid flow and tracer dispersion in tundishes.
Proc. Continuous Casting 85 paper, No.49 The Institute Metals, London

Prakash, C

A demonstration calculation of three dimensional fluid flow and heat transfer in a crt-monitor.
CRT-Monitor Internal Report, CHAM North America

Kjaldman, L Huhtanen, R

***Numerical simulation of vapour cloud and dust explosions.

Presented at the 1st International PHOENICS User Conference, Dartford Kent. Proceedings published Lecture Notes in Engineering 18, pp 148-158

Andreasson, P

Numerisk simulering av stromning i en konisk diffuser.
(1985) WREL Report Series B No 28, Abstract in English

Militzer, J

Numerical prediction of the fully developed two-phase (air-solids) flow in a pipe.
(1985) Presented at the 1st International PHOENICS User Conference, Dartford Kent

Owens, SF Mukerjee, T Singhal, AK Przekwas, AJ Glynn, DR

Numerical analysis of flow in the hot gas manifold of the space shuttle main engine.
(1985) AIAA-86-1514, Presented at the AIAA 22s Journal Propulsion Conference, Huntsville, Alabama.

Larsson, R

Secondary currents in channels generated by the earth's rotation.
(1985) WREL Research Report Series A No. 134

Visser, AH

PHOENICS applications at the delft university of technology.
(1985) Presented at the 1st International PHOENICS User Conference, Dartford, Kent

Waters, R

*** Air and smoke movement within a large enclosure

(1985) Presented at the 1st International PHGOENICS User Conference, Dartford, Kent. Proceedings published Lecture Notes in Engineering 18, pp 135-147

Sweeney, MEG Swann, CBG Kenny, RG Blair GP

Computational fluid dynamics applied to two-stroke engine scavenging.

(1985) Presented at 1985 International Off-Highway and Powerplant Congress and Exposition, MECCA, Milwaukee, 31291.

Boccio, JL Usher, JL Snghal, AK Tam, LT

The use of a field model to analyze probable fire environments encountered within the complex geometries of nuclear power plant.

(1985) Presented at 23rd National Heat Transfer Conference, Denver, August 1985. Heat , Transfer in Fire and Combustion Systems HTD-Vol. 45, pp 159-166

Huggkvist, K Anderson, C Taesler, R

***PHOENICS-applications in building climatology.

(1985) Proceedings published Lecture Notes in Engineering 18, pp 122-132, Springer-Verlag.

Yamamoto, A Kimura, N Kichimi, H Inoue, H Yamaoka, H Mito, T Hirabayashi, H

Test results of the topaz thin superconduction solenoid wound with the internal winding method.

(1985) Presented at the 9th International Conference on Magnet Technology, Zurich Switzerland, September

Murthy, SNB Warner, CF Winfree J

Reactive jet flows through protrusions in cross-flow.

(1985) Presented at the Seventh International Symposium on Air-breathing Engines, Beijing, China

Kumar, S Cox, G

Mathematical modelling of fires in road tunnels.

(1985) 5th International Symposium on the Aerodynamics and Ventilation of Vehicle Tunnels, Lille, France

Serag Eldin, MA

The spread of pollutants emitted from long and large obstacles in atmosphere.

(1985) Technical Report 009, IBM Cairo Scientific Center, 31138

Huang, S Lofdahl, L Olsson, E

***Using PHOENICS-BFC in the design of a convergent and divergent channel for the simulation of a cascade flow.

(1985) Presented at the 1st International PHOENICS User Conference, Dartford, Kent. Proceedings published Lecture Notes in Engineering 18, pp 318-327

Markatos, NC Pericleous, KA

A two-fluid model of turbulence applied to simulation of fires.

Proceedings 11th IMACS World Congress on System Simulation and Scientific Computation, Norway Vol 2, pp 189-193, Elsevier

Rawnsley, SM Glynn, DR

Flow around road vehicles.

(1985) Presented at the 1st International PHOENICS User Conference, Dartford, Kent. Proceedings published Lecture Notes in Engineering 18, pp 471-482

Al Sanea, SA Rhodes, N Wilkinson, TS

Mathematical modelling of two-phase condenser flows

(1985) Presented at 2nd International Conference on Multi-Phase Flow, London

Castrejon, A Andrews, MJ

*** A procedure for calculating moving interface flows with PHOENICS-84

(1985) Presented at the 1st International PHOENICS User Conference, Dartfor, Kent. Proceedings published Lecture Notes in Engineering 18 pp 433-444

Glynn, DR Rawsley, SM

Vortex generation around an aerofoil in a boundary layer on a flat plate.

Presented at the 1st International PHOENICS User Conference, Dartford, Kent. Proceedings published Lecture Notes in Engineering 18 pp 458-470

Pericleous, KA Drake, SN

An algebraic slip model of PHOENICS for multi-phase applications.

Presented at the 1st International PHOENICS User Conference, Dartford, Kent. Proceedings published Lecture Notes in Engineering 18 pp 458-470

Simitovic, R Markatos, NC Pericleous, KA

On the three-dimensional modelling of airborne evaporative cooling tower effluent in interaction with the atmosphere.

(1985) Proceedings of 4th International Conference on numerical Methods in Laminar and Turbulent Flow, Swansea, July pp, 979-990

Edwards, JP Glynn, DR Tatchell, DG

Flow and blade loading in centrifugal impellers

Proceedings of 1st International PHOENICS User Conference, Dartford, Kent. Lecture Notes in Engineering 18 pp 302-317

Sawada, I Ohashi, T

Numerical analysis of two-phase flow in the continuous casting mould in the steel-making process

Proceedings 11th IMACS World Congress on System Simulation, Norway, vol. 2 pp 185-188, Elsevier

Cox, G

The mathematical modelling of fires in enclosures.

Proceedings of "Interflam 85" International Conference on Flammability, Guildford UK

Janson, CE Larsson, L

Ship flow calculations using the PHOENICS computer code.

Proceedings of 2nd International Symposium on Ship Viscous Resistance, Goteborg Sweden

Mukerjee, T Larsson, L

Analysis of flow development in open combustion cavities of diesel engines.

Proceedings of ASME WAM, FE-7D Symposium of Fluid Mechanics of International Combustion Engines December

Markatos, NV Shah, P

Turbulence modelling in internal combustion engines.

Proceedings of International Conference on Numerical Methods in Laminar and Turbulent Flow, July 1985, Swansea, pp 1439-1454 Pineridge Press

Hall, MG

Cell-vertex multigrid schemes for solution of the euler equations.

(1985) Invited paper at Conference of Numerical methods for Fluid Dynamics, 1-4 April University of Reading

Kannapel, MD Przekwas, AJ Singhal, AK

*** Two-phase flow analysis for the pressure slump problem of space shuttle's oxygen tank.

(1985) Proceedings published Lecture Notes in Engineering 18, pp 271-288

Karvinen, R Ahlstedt, H

*** Use of PHOENICS with modifications in some process problems.

(1985) Proceedings published Lecture Notes in Engineering 18 pp 355-363, Presented at the 1st International PHOENICS User Conference, Dartford, Kent

Baldwin, SJ White, PRS Al-Daini, AJ

*** Investigation of the gas side flow field in a circular tube-plate fin heat exchanger.

(1985) Notes in Engineering 18, pp 364-374. Presented at the 1st International PHOENICS User Conference, Dartford, Kent

Lovgren, R

*** Numerical two-dimensional air flow simulation over a backward-facing step and a block.

(1985) Proceedings published Lecture Notes in Engineering 18, pp 447-457. Presented at 1st International PHOENICS User Conference, Dartford, Kent

Seppen, JJ

*** Intake and exhaust processes in combustion engines development of siflex.

(1985) Proceedings published Lecture Notes in Engineering 18, pp 73-84 Springer-Verlag. Presented at 1st International PHOENICS User Conference, Dartford, Kent

Mahaffey, WA Mukerjee, T Singhal, AK

Prediction of turbulent ship air-wake characteristics.

(1985) Proceedings published Lecture Notes in Engineering 18, pp 335-352. Presented at 1st International PHOENICS User Conference, Dartford, Kent

Voller, VR Markatos, NC Cross, M

*** Solidification in convection diffusion.

(1985) Proceedings published Lecture Notes in Engineering 18, pp 425-432. Presented at 1st International PHOENICS User Conference, Dartford, Kent

Shah, P Markatos, NC

On the 2d and 3d computer analysis of turbulent flow in internal combustion engines.

(1985) Proceedings published Lecture Notes in Engineering 18, pp 56-72. Presented at 1st International PHOENICS User Conference, Dartford, Kent

Rhodes, N Tatchell DG Pericleous KA

Computational methods for two-phase flow systems and their application to engineering equipment.

(1985) Proceedings 11th IMACS World Congress on System Simulation and Scientific Computation, Norway, Vol.2 pp 181-184 Elsevier.

Veenhuizen, DJ

*** Flow between a solid wall and a rotating disc with pressure relief holes

(1985) Proceedings published Lecture Notes in Engineering 18, pp 328-334. Presented at 1st International PHOENICS User Conference, Dartford, Kent

Kostamis, P Richards, CW Markatos, NC

*** Numerical modelling of radiation phenomena in two-phase flows.

(1985) Proceedings published Lecture Notes in Engineering 18, pp 386-396. Presented at 1st International PHOENICS User Conference, Dartford ,Kent

Fukuda, S Suzuki H

*** Natural convection analysis of nuclear fuel shipping cask.

(1985) Proceedings published Lecture Notes in Engineering 18, pp 184-192 . Presented at 1st International PHOENICS User Conference, Dartford ,Kent

Fenech, K Cross, M Voller, V

A computational framework for modelling the raceway of the iron blast furnace.

(1985) Present at the IMACS World Congress Oslo, August

Enright, PG Ludwig, JC Rogers S Katgerman, L

Mixing and solidification of a turbulent liquid metal jet.

(1985) Proceedings published Lecture Notes in Engineering 18, pp 397-407

Brown, GA Scriven, J

*** Shell-side hydraulic phenomena in the inlet and outlet regions of the CFDR steam generators.

(1985) Proceedings published Lecture Notes in Engineering 18, pp 215-224

Brown, GA Phelps, PJ

CFDR-diagrid hydraulic analysis using the PHOENICS code.

(1985) Proceedings published Lecture Notes in Engineering 18, pp 193-203

Phelps, PJ Kirkcaldy, D Purslow, B

Application of the PHOENICS code to LMFBR plenum analysis.

(1985) Proceedings published Lecture Notes in Engineering 18, pp 173-183

Davis, MP Ludwig, JC Rhodes, N

The application of PHOENICS to transonic jets

(1985) Proceedings published Lecture Notes in Engineering 18, pp 260-270

J Mckelliget & J Szekely

Heat Transfer and Fluid Flow in the Welding Arc

(1986) Metallurgical Transactions Volume 17A July

Ludwig, JC Rogers, S Enright, PG Katgerman, L

Turbulent mixing and solidification of a liquid metal jet in a confined molten metal stream of different composition

(1985) Proceedings of 4th International Conference on numerical Methods in Thermal Problems, Swansea Pineridge Press

Rhodes, N. Ludwig JC

Modelling the behaviour of additives in gun barrels.

(1985) Presented at AGARD-PEP (Propulsion of Energetics Panel) 66th Specialist Meeting, Florence, September

Markatos, NC Rawnsley, SM Spalding, DB

Heat transfer during a small-break loss-of-coolant accident in a pressurized water reactor- a parametric study for a 4 inch lower-plenum break.

(1984) International Journal of Heat and Mass Transfer, Vol. 27, No. 8, pp 1379-1394

Malin, MR Spalding, DB

A two-fluid model of turbulence and its application to heated plane jets and wakes

(1984) PCH PhysicoChemical Hydrodynamics, Vol. 5, No 5/6, pp 339-362

Qin H Q and Spalding D Brian

Circumferential Pseudo-Diffusion in a Toroidal Vortex.

(1984) PhysicoChemical Hydrodynamics Journal, vol 5, no 1, pp 85-87

Mukeree T, Singhal A K, Spalding D Brian

Applicability of Numerical Flow Models to Orifice Metering Problems.

(1984) Proceedings International Conference Metering of Natural Gas and Liquefied Hydrocarbon Gases, Oyez Scientific and Technical Services, London

Spalding D Brian

The Two-Fluid Model of Turbulence Applied to Combustion Phenomena.

(1984) 22nd AIAA Aerospace Science Meeting, Reference AIAA-84-0476

Ilegbusi J O, Spalding D Brian

A Steady-Unsteady Visualization Technique for Wake-Flow Studies.

(1984) J Fluid Mechanics, vol 139, pp 435-441

Malin M R, Spalding D Brian

The Prediction of Turbulent Jets and Plumes by Use of the k-W Model of Turbulence.

(1984) PhysicoChemical Hydrodynamics Journal, vol 5, no 2, pp 153-198

Karasu T, Spalding D Brian

Prediction of Turbulent Swirling Flows in Annuli.

(1984) J of Faculty of Engineering, Uladag University Turkey, vol 1, no 1, pp 21-42

Markatos N C, Rawnsley S M, Spalding D Brian

Heat Transfer During a Small Break Loss-of-Coolant Accident in a Pressurized Water Reactor: A Parametric Study for a 4-inch Lower-Plenum Break'

(1984) Int J Heat and Mass Transfer, vol 27, no 8, pp 1379-1394

Mukerjee, T., Singhal, A.K.

Analysis of flow development in open combustion cavities of diesel engines.

(1984) American Society of Mechanical Engineers, Fluids Engineering Division (Publication) FED, 20, pp. 19-25.

Singhal, A.K., Owens, S.F., Mukerjee, T., Keeton, L.W., Prakash, C.

Analysis of physical-chemical processes governing SSME internal fluid flows.

(1984).

Andrews, M.J.

Application of the van Leer method to the solution of one-dimensional volume fraction equations.

(1984).

Jun, L.

Laminar flow in a driven square cavity.
(1984).

Bringfelt, B

PHOENICS-simulations of plume spread in the lee of a building and comparisons with smoke experiments and Gaussian dispersion formulae
(1984) R&D Notes, Sveriges Meteorologiska och Hydrologiska Institut, No.35, October 1984. Publisher: SMHI Sweden

Kumar, S Cox,G

The application of a nuclear field model of smoke movement to the physical scaling of compartment fires.
(1984) Numerical Methods in Thermal Problems, pp 837 Editors: Lewis, Johnson & Smith Pineridge Press

Cox, G

Predicting fire spread in buildings by computer.
(1984) The Post Magazine March 1984, pp 710-711

Cox, G

Computing fire spread.
Building, September 1984, pp 53

Cox, G Kumar, S

The mathematical modelling of fire in forced ventilated enclosures.
(1984) Proceedings of 18th DOE Nuclear Airborne Waste Management and Cleaning Conference, Baltimore

Cox, G

Simulated fires in building by computer – state of the art.
(1984) Proceedings of 10th International Association of Forensic Sciences Meeting Oxford.

Hong, SK Murthy SNB Warner, CF

Jet through a wall protrusion in a cross-flow.
(1984) Proceedings of AIAA/SAE/ASME 20th Joint Propulsion Conference, Cincinnati Ohio June 1984

Bringfelt, B

PHOENICS simulering av plymspridning over ett skrovligt underlag.
(1984) R&D Notes, Sveriges Meteorologiska och Hydrologiska Institut, No. 32, August 1984, SMHI Sweden. Swedish text with English summary.

Kawamura, T Kuwahara, K (University of Tokyo)

Computation of high Reynolds number flow around a circular cylinder with surface roughness.
Space/Astronautical Science, (Tokyo). Presented at AAIA 22nd Aerospace Sciences Meeting, January 9-12 1984, Reno Nevada

Markatos, NC

The computation of thick axisymmetric boundary layers and wakes around bodies of revolution.
(1984) Proceedings Institute of Mechanical Engineering, Vol. 1980, No. 4, pp 51-62

Cross, M Markatos, NC

Gas injection in ladle processing.
(1984) Process Metallurgy, Control: 84 Mineral/Mining Processing, Society of Mining Engineers, pp 291-297

Mukerjee, T Przekwas, AJ Singhal, AK Duggal, VK Kuo, TW

Three dimensional modeling of in-cylinder processes in diesel engines.
(1984) SAE 840227, Proceedings of the SAE Congress, Detroit, USA

Bankoff, SG Hadid, A

The application of a user-friendly code to nuclear thermalhydraulic reactor safety problems.

(1984) Proceedings of the International Nuclear Power Plant Thermal Hydraulics & Operations Topical Meeting in Taipei, ROC, October 22-24

Hulme, G

A numerical study of the influence of thermal stratification on forced convection heat transfer in sodium.

(1984) Proceedings of 3rd International Conference, Liquid Metal Engineering and Technology in Energy Production, Oxford 1984, BNES/ANS/ENS.

Hawkins, KS Purslow, B

Experimental and theoretical investigations into the thermal hydraulic behavior of a fast reactor cold pool.

(1984) Proceedings of 3rd International Conference Liquid Metal Engineering and Technology in Energy Production, Oxford 1984 BNES/ANS/ENS.

Markatos, NC Cox,G

Hydrodynamics and heat transfer in enclosures containing a fire source.

(1984) PHC PhysicoChemical Hydrodynamics, Vol. 5 No. 1, pp 53-66

Markatos, NC Pericleous, KA

Laminar and turbulent natural convection in an enclosed cavity.

(1984) International Journal of Heat and Mass Transfer, Vol. 27, No. 5, pp 755-772.

Malin, MR Spalding DB

The prediction of turbulent and plumes by use of the k-w model of turbulence.

(1984) PCH PhysicoChemical Hydrodynamics, Vol. 5, No. 2, pp 153-198.

Mukerjee, T Singhal, AK Spalding, DB

Applicability of numerical flow models to orifice metering problems.

(1984) Proceedings of International Conference on the Metering of Natural Gas and Liquefied Hydrocarbon Gases, Oyez Scientific and Technical Services.

Slotta, LS

Dredge cutterhead flow processes.

(1984) Proceedings of Dredging 84 Conference, Florida, November 84

Pericleous, KA Rhodes, N Cutting, GW

A mathematical model for predicting the flow field in a hydrocyclone classifier.

(1984) Proceeding of 2nd International Hydrocyclones Conference, Bath September 1984 BHRA.

Salvetat, B

Analysis of gas flow in three dimensional solid propellant grains.

(1984) Proceedings of AIAA Conference, Cincinnati, June

Glynn, DR Kirkcaldy, D Rhodes, N

Prediction of reflooding in single channels and partially - blocked rod bundles.

(1984) Proceedings of 5th International Conference on Nuclear Reactor Safety, Karlsruhe, September 1984

Everett, MG Finney, RD Markatos, NC

Computer simulation of flow in aeration basins.

Thames Polytechnic, School of mathematics, Statistics and Computing, Technical Report.

1983

Majumdar, A.K Singhal, A.K Spalding, D.B

Numerical modelling of wet cooling towers-part 1: mathematical and physical.

(1983) Journal of Heat Transfer, Vol. 105, pp 728-735 ASME. See also ref. 1983/21

Ilegbusi, J.O Spalding, D.B

An improved version of the k-w model of turbulence.

(1983) Proceedings of 21st Heat Transfer Conference, Seattle, ASME/AICHE

Spalding, D.B

Chemical reaction in turbulent fluids.

(1983) PCH PhysicoChemical Hydrodynamics, Vol.4, No. 4, pp 323-336 Pergamon Press.

Spalding D Brian

Heat Exchanger Theory

(1983) Preface, Sections 1.1, 1.2, 1.3, 1.4 Heat Exchanger Design Data Handbook Part 1, Hemisphere Publishing Corporation, Washington and New York

Demuren A O, Spalding D Brian

Flow and Heat Transfer in a Floating Liquid Layer.

(1983) Proceedings 3rd International Conference Applied Mathematical Modelling, no 26, pp 44-62

Spalding D Brian

Towards a Two-Fluid Model of Turbulent Combustion in Gases, with Special Reference to the Spark Ignition Engine.

(1983) Combustion in Engineering, vol 1, pp 135-142, paper C53/83

Majumdar A K, Singhal A K, Spalding D Brian

Numerical Modelling of Wet Cooling Towers Part 1: Mathematical and Physical Models.

(1983) J of Heat Transfer, vol 105, pp 728-735

Spalding, D.B.

Numerical requirements of two-phase prediction procedures.

AICHE SYMP. SER., 79 (225, 1983, p.414-419.).

Spalding, D.B, Tatchell, D. G.

General-purpose fluid mechanics computer program for turbomachinery applications.

(1983) *International Congress on Combustion Engines*, pp. 361-388.

Rosten, H.I., Spalding, D.B., Tatchell, D.G.

PHOENICS: a general-purpose program for fluid-flow, heat-transfer and chemical-reaction processes.

(1983) Published by CHAM pp. 639-655.

Markatos, N.C., Pericleous, C.A.

GRAFFIC: A computer package for the interactive graphical representation of fluid-flow phenomena

(1983) *Advanced Engineering Software* Vol. 5, No. 2, pp 86-91.

Markator, N.C Kirkcaldy, D

Analysis and computation of three-dimension transient flow and combustion through granulated propellants.

(1983) Int. Journal of Heat Transfer, Vol. 26, No. 7, pp1037-1053

Ludwig, J.C Rhodes, N Tatchell, D.G

Numerical modelling of the flow of a hot particle-laden gas.

(1983) Proceedings of 7th International Ballistics Symposium, pp 37-51

Majumdar, A.K Singhal, A.K Reilly, H.E Bartz, J.A

Numerical modelling of wet cooling towers part 2: application to natural and mechanical draft towers.

(1983) Journal of Heat Transfer, Vol. 105, pp 736-743, ASME

Mukerjee, T Majumdar, A.K Singhal, A.K

Three-dimensional numerical calculation of flow distribution to the recipient tubes in compact heat exchangers.

(1983) ASME Winter Annual Meeting, Boston, ASME Publication ASME 83WA/HT-83

Hoffman, P.D Mukerjee, T. Singhal, A.K

An application of numerical flow modelling to a tubular reactor evaluation and design study.

(1983) Proceedings of 21st National Heat Transfer Conference, ASME/AIChE, Seattle USA.

Markatos, N.C

Computer analysis of building ventilation and heating.

(1983) Passive and Low Energy Architecture, pp 667-675.

Cox, G

A field model of fire and its application to nuclear containment problems.

(1983) Proceedings of the CSNI Specialist on Interaction of Fire and Explosion with Ventilation Systems in Nuclear Facilities, Los Alamos National Laboratory, New Mexico.

Markatos, N.C

The theoretical prediction of external aerodynamics of road vehicles.

(1983) Int. Journal of Vehicle Design, Advances in Vehicle Design Series SP3, Impact of Aerodynamics of Vehicle Design, pp387-400.

Aldham, C.M Markatos, N.C

Numerical solution of the navier-stokes equation for laminar flow over a forward facing step.

(1983) Proceedings of 6th Meeting of IAHR Working Group.

Al Sanea, S Rhodes, N Tatchell, D.G Wilkinson, T.S

A computer model for detailed calculation of the flow in power station condensers.

(1983) Theory and Practice IChem E Symposium Series, No. 75, pp 70-88

Markatos, N.C Rawnsley, S.M Tatchell. D.G

Analysis of a small-break loss-of-coolant accident in a pressurised water reactor.

(1983) Proceedings of Conference on Heat and Fluid Flow in Nuclear and Process Plant Safety, Institute of Mechanical Engineering May 83.

Markatos, N.C Pericleous, K.A

An investigation of three-dimensional fire in enclosures.

(1983) Proceedings of 21st National Heat Transfer Conference ASME/AIChE, HTD, Vol. 25, pp 115-124.

Markatos, N.C

Computer simulation of turbulent fluid flow in chemical reactors.

(1983) Advances in Engineering Software, Vol. 5, No. 1, pp32-38.

Glynn, D.R Rhodes, N Tatchell, D.G

Numerical modelling of reflow processes.

Proceeding of Conference on Heat and Fluid Flow in Nuclear and Process Plant Safety, Institute of Mechanical Engineering.

Markatos, N.C

Modelling of two-phase transient flow and combustion of granular propellants.

(1983) Int. Journal of Multiphase Flows.

Markatos, N.C Simitovic, R

Numerical prediction of sea flow and temperature range between power station intake and discharge ports in a bay.

(1983) 3rd Conference on Numerical Methods for Laminar Turbulent Flows, Seattle USA.

1982

Spalding D Brian

An Over-View of Diffusion Convection Problems.

(1982) Numerical Modelling in Diffusion Convection, Editor: J Caldwell, Pentech Press, pp 1-16

Mace A C, Markatos N C, Spalding D Brian, Tatchell D G

Flow and Combustion in the Base-Wall Region of a Rocket Exhaust Plume.

(1982) J Combustion Science and Technology, vol 28, pp 15-29

Elhadidy M A, Gori F, Spalding D Brian

Further Results on the Heat Transfer to Low-Prandtl-Number Fluids in Pipes.

(1982) Numerical Heat Transfer J, vol 5, pp 107-11

Malin M R, Markatos N C, Spalding D Brian, Tatchell D G

Analysis and Computation of Multi-Dimensional Coal Combustion Processes.

(1982) Proceedings AIAA/ASME Thermophysics Conference, Paper Number ASME 82-FE-8

Ramachandra V, Spalding D Brian

Turbulent Flow and Heat Transfer in Parallel-Rod Arrays: A Numerical Treatment.

(1982) PhysicoChemical Hydrodynamics J, vol 2, no 1, pp 23-56

Spalding D Brian

Computational PCH - A New Style of Scientific Communication.

(1982) Physicochemical Hydrodynamics Journal, vol 3, no 3/4, pp 165-169

Spalding D Brian

The "Shadow" Method of Particle-Size Calculation in Two-Phase Combustion.

(1983) Proceedings 19th International Combustion Symposium, The Combustion Institute, pp 941-951

Ma A S C, Spalding D Brian, Sun R L T

Application of 'ESCIMO' to the Turbulent Hydrogen-Air Diffusion Flame.

(1982) Proceedings 19th International Combustion Symposium. The Combustion Institute, pp 393-401

Spalding, D.B

The Shadow method of particle-size calculation in two-phase combustion.

(1982) Proceedings of 19th Symposium, The Combustion Institute, Pittsburgh, 1982, pp 941-95.

Ma, A.S.C Spalding, D.B Sun, R.L.T

Application of ESCIMO to the turbulent hydrogen-air diffusion flame.

(1982) Proceedings of 19th Symposium, The Combustion Institute, pp 393-402

Moscardini, A.O. Mace, A.C.H Markatos, N.C Spalding, D.B Tatchell, D.G

Analysis of combustion in recirculating flow for rocket exhausts in supersonic streams.

(1982) Journal of Spacecraft, Vol. 19, No. 6, pp 557-563

Markatos, N.C Malin, M.R, Spalding, D.B Tatchell, D.G

Analysis and computation of multi-dimensional coal combustion processes.

(1982) Presented at ASME Spring Meeting, Fluids Engineering Division, June 1982 ASME Publication 82-FE-8

Markatos, N.C Spalding, D.B Tatchell, D.G Mace, A.C.H

Flow and combustion in the base-wall region of a rocket exhaust plume

(1982) Comb. Sci. and Tech, Vol. 28, pp 15-29.

PHOENICS - PARABOLIC, HYPERBOLIC OR ELLIPTICAL INTEGRATION CODE SERIES.

(1982) *Proceedings of Polymodel*, pp. 242-260.

Malin, M.R

The turbulent, axisymmetric wake behind a low-drag body of revolution..

(1982) *PCH. Physicochemical hydrodynamics*, 3 (3-4), pp. 171-198.

Anon

COMPUTER MODELING OF FLUID FLOW AND HEAT TRANSFER PROCESSES.

(1982) *Mechanical Engineering*, 104 (3), pp. 38-39.

Markatos, N.C., Rhodes, N., Tatchell, D.G.

A general purpose program for the analysis of fluid flow problems.

(1982) *Numerical Methods for Fluid Dynamics*, pp-463-480

Schmidt, W., Buchheim, R.

Evaluation of different approaches in computational aerodynamics for passenger cars.

(1982).

Aldham, C Cross, M Markatos, N.C

Mathematical modeling of gas injection processes into liquid metals

(1982) Polymodel 5, 5th Annual Conference of NE Polytechnics Mathematical Modelling and Computer Simulation Group, Proceedings: Mathematical Modelling.

Markatos, N.C Cox, G

Turbulent buoyant heat transfer in enclosures containing a fire source

(1982) Proceedings of 7th Int. Heat Transfer Conference, Hemisphere Publishing, pp373-3

Srikantiah, G.S Singhal. A

Modeling and simulation of recirculating u-tune nuclear steam generators.

(1982) Proceedings of 10th World Congress on System Simulation and Computation, August 1982 Montreal Canada

Markatos, N.C Kirkcaldy, D

Analysis and computation of three-dimensional, transient flow and combustion through granulated propellants

(1982) Presented at ASME Spring Meeting, Fluid Engineering Division, June 1982, ASME Publication 82-FE-9

Tatchell, D.G

Die Anwendung des programms PHOENICS in der thermisch-hydraulischen

(1982) Nuclear Reactor Plant. Int. Fem-Congress, Baden-Baden November 1982 pp 279-303

Aldham, C Rhodes, N Tatchell D.G

Three-dimensional calculations of explosion containment in fast reactors.

(1982) Presented at ASME Spring Meeting, Fluid Engineering Division, June 1982 ASME Publication 82-FE-3

Markatos, N.C Malin, M.R Cox, G

Mathematical modeling of buoyancy-induced smoke flow in enclosures.

(1982) Int. Journal of Heat and Mass Transfer, Vol. 25, No. 1, pp63-75

Markatos, N.C Phelps, P.J Purslow, B

Computer simulation of the thermal-hydraulic behavior of fast-reactor pools.

(1982) Annals of Nuclear Energy, Vol. 9, No.4, pp179-183.

Markatos, N.C Singhal, A.K

Numerical analysis of one-dimensional, two-phase flow in a vertical cylindrical passage.

(1982) Adv. In Eng. Software, Vol. 4, No.3 CML Publications

Muraoka, K

Calculation of viscous flow around ships with parabolic and partially parabolic flow solution procedure.

(1982) Transactions of the West-Japan Society of Naval Architects, No. 63, March 1982, pp-13-29.

1981

Serag Eldin M A, Spalding D Brian

A Computational Procedure for Three-Dimensional Recirculating Flows Inside Can Combustors.

(1981) Numerical Methods in Heat Transfer, Editors Lewis R L, Morgan K and Zienkiewics O C
John Wiley and Sons, Ch 21, pp 445-466

Maxwell T T, Nilmani M, Robertson D G, Spalding D Brian

Prediction of Initial Motion of a Gas Bubble in Liquids.

(1981) J Applied Mathematical Modelling, vol 5, no 1, pp 24-28

Singhal A K, Spalding D Brian

Predictions of Two-Dimensional Boundary Layers with the Aid of the k-e Model of Turbulence.

(1981) J Computer Methods in Applied Mechanics and Engineering, North Holland, vol 25, pp 365-383

Awn A G, Spalding D Brian

Flow Motion within Reciprocating Engine Cylinders.

(1981) Numerical Methods in Thermal Problems, Pineridge Press, vol II, pp 1189

Spalding D Brian

Numerical Computation of Multiphase Fluid Flow and Heat Transfer.

(1981) Recent Advances in Numerical Methods in Fluids, Editors Morgan K and Taylor C
Pineridge Press, pp 139-167

Spalding D Brian

A General Purpose Computer Program for Multi-Dimensional One- and Two-Phase Flow.

(1981) J Mathematics and Computers in Simulation, North Holland, vol XXIII, pp 267-276

Spalding D Brian

Numerical Computation of Two-Phase Flow in Gun Barrels.

(1981) US Army Workshop on Multiphase Flow, Aberdeen Proving Ground, Maryland

Spalding D Brian

Methods of Calculating Heat Transfer within the Passages of Heat Exchangers.

(1981) NATO Conference, Lecture 1, Ankara, Turkey

Spalding D Brian

The Calculation of Heat-Exchanger Performance.

(1981) NATO Conference, Lecture 2, Ankara, Turkey

Spalding D Brian

Developments in the IPSA Procedure for Numerical Computation of Multiphase Flow with Interphase Slip, Unequal Temperatures, etc'

(1981) 2nd International Conference on Numerical Methods, Maryland University

Markatos, N.C Spalding. D.B Tatchell, D.G

Computational Analysis of Combustion in recirculating flow for rocket exhausts in supersonic streams

(1981) Proceedings of AIAA/SAE/ASME 17 Joint Propulsion Conference, Colorado, USA

Spalding, D.B.

A general purpose computer program for multi-dimensional one- and two-phase flow

(1981) *Mathematics and Computers in Simulation*, 23 (3), pp. 267-276.

Spalding, D.B.

Solution of the parabolized Navier-Stokes equations.

Abdelmaguid, A.M., Goh, S.Y., Ilegbusi, J., Spalding, D.B.

Predictions of complex turbulent flows using the phoenics computer code.

(1981) Proceedings of AFOSR/HTTM Stanford Conference on Complex Turbulent Flows

Spalding, D.B

Numerical computation of two-phase flow in gun barrels

(1981) US Army Workshop on Multiphase Flows, Editor: D.A Drew pp 227-242

Spalding, D.B

Developments in the IPSA procedure for numerical computation of multiphase-flow phenomena with interphase slip, unequal temperatures, etc

(1981) Proceedings of 2nd National Symposium Numerical Properties and Methodologies in Heat Transfer. Editor: TM Shih, ch 6 pp 421-436

Carey, C., Fraser, S.M., McKeogh, E.J.

Comparison of LDA measurements with 3-D computer analysis of flow in a containing vessel.

Carey, I.C., Fraser, S.M., McKeogh, E.J.

Comparison of LDA measurements with 3-D computer analysis of flow in a containing vessel.

Hirt, C.W Nichols, B.D

Volume of Fluid (VOF) method for the dynamics of free boundaries

(1981) *Journal of Computational Physics* 39, 210-225

Mitchell, R.E Sarofim, A.F Clomburg, L.A

Experimental and numerical investigation of confined laminar diffusion flames

(1981) Published in Combustion and Flame 37, pp 227-244

Markatos, N.C Wills, C.B

Prediction of viscous flow around a fully submerged appended body

(1981) Computer Methods in Applied Mechanical and Engineering, Vol. 29 No.2 pp 175-192

Markatos, N.C Mukerjee, T

Three dimensional computer analysis of flow and combustion in automotive internal combustion engines.

(1981) Proceedings of IMACS Mathematics and Computers in Simulation Vol. XXIII No. 4 pp 354-366 Elsevier