

### *Published Conference Papers*

- [112] Abbaszadeh, M., **THOMAS, P.J.**, Guo, W. (2018), Empirical Turbulent Diffusion Channel Model for Molecular Communications, Abstract submitted for presentation at 3<sup>rd</sup> Workshop on Molecular Communications, Ghent, Belgium, 4-6 April.
- [111] Atthanayake, I.U., Denissenko, P., Chung, Y.M., **THOMAS, P.J.** (2017) Precession of Plumes in the Presence of Background Rotation, EUROMECH-ERCOFTAC Colloquium 589 Turbulent Cascades II, Lyon, France, 5-7 Dec.
- [110] Brons J.A., **THOMAS, P.J.**, Potherat, A. (2017) On the formation of columnar structures in a rotating turbulent flow, 16<sup>th</sup> European Turbulence Conference, Stockholm, Sweden, 21-24 August.
- [109] Atthanayake, I.U., Denissenko, P., Chung, Y.M., **THOMAS, P.J.** (2017) Pulsation of an Axisymmetric Jet in the Presence of Background Rotation, EUROMECH Symposium 590 Turbulent/Nonturbulent Interfaces, London, UK, 3-5 July.
- [108] **THOMAS, P.J.**, Tan, Benedict C.-W., Vlaskamp, J. H. A., Denissenko, P. (2016) Rigid Spheres Impacting on a Stratified Two-Layer, Oil-Water Liquid Environment, 11<sup>th</sup> European Fluid Mechanics Conference (EFMC11), Seville, Spain, 12-16 September.
- [107] Atthanayake, I.U., Vlaskamp, J.H.A., Denissenko, P., Chung, Y.M., **Thomas, P.J.** (2016) On Instability of Vortices Generated by a Free-Jet Flow, in the Presence of Background Rotation, Inaugural UK Fluids Conference, Imperial College London, 7-9 September.
- [106] Özkan, M., **THOMAS, P.J.**, Cooper, Alison J., Garrett, Stephen J. (2016) Roughness-Based Laminar-Flow Control for Boundary Layers with a Cross-Flow Component, 11<sup>th</sup> European Fluid Mechanics Conference (EFMC11), Seville, Spain, 12-16 September.
- [105] Brons, J., **THOMAS, P.J.**, Pothérat, Alban (2016) On the Formation Mechanism of Columnar Structures in Rotating Turbulent Flow, 11<sup>th</sup> European Fluid Mechanics Conference (EFMC11), Seville, Spain, 12-16 September.
- [104] Atthanayake, I.U., Vlaskamp, J.H.A., Denissenko, P., **THOMAS, P. J.** (2016) Dynamic Variability of Axisymmetric, Non-Buoyant Jet in a Rotating Reference Frame, Flow Measurement Conference, organized by Flow Measurement Institute, Coventry University, 19-20 July.
- [103] **THOMAS, P.J.** (2016) Particle-Laden Rotating-Drum Flows and Positron-Emission Particle Tracking, Flow Measurement Conference, organized by Flow Measurement Institute, Coventry University, 19-20 July.
- [102] Garrett, S.J., Cooper, A.J., Özkan, M., **THOMAS, P.J.**, (2016) Towards Roughness Based Drag Reduction, 16<sup>th</sup> Int. Symp. On Transport Phenomena and Dynamics of Rotating Machinery, ISROMAC-16, Honolulu, HI, USA, 10-15 April 2016.
- [101] Tan, B. C.-W., Vlaskamp, J.H.A., **THOMAS, P.J.** (2016) The Entry of Steel Spheres into a Stratified Two-Layer System of Immiscible Liquids, in Book of Abstracts, British Applied Mathematics Colloquium, p. 140, Oxford, UK, 5-8 April 2016.
- [100] Atthanayake, I.U., Vlaskamp, J.H.A., Denissenko, P., Chung, Y.M., **THOMAS, P.J.**, (2016) Dynamic Variability of Axisymmetric, Round Jet in an Rotating Reference Frame, in Book of Abstracts, British Applied Mathematics Colloquium, p. 106, Oxford, UK, 5-8 April 2016.
- [99] Gélat P., Yang J., **THOMAS P. J.**, Hutchins D. A., Akanji O., Davis L. A. J., Freear S., Harput S. and Saffari N., (2016) The dynamic excitation of a granular chain for biomedical ultrasound applications: contact mechanics finite element analysis and validation Journal of Physics Conference Series 684, 012005, Proceedings of the 14th Anglo-French Physical Acoustics Conference 14–16 January 2015, Fréjus, France.
- [98] Harput, S., McLaughlan, ., Freear, S., Saffari, N., Gelat, P., Yang, J., O. Akanji, **THOMAS, P.J.**, Hutchins, D. (2015) Non-Linear Generation of Harmonic Content within High Intensity Ultrasound Signals Using Granular Chaons, IEEE International Ultrasonics Symposium (IEEE, IUS) Taipei, Taiwan, 21-24 October 2015.
- [97] Gelat, P., Saffari, N., Hutchins, D.A., Yang, J., O. Akanji, **THOMAS, P.J.**, Davis, L.A.J., Freear, S., Harput, S., (2015) The Dynamic Excitation of a Chain of Pre-Stressed Spheres for Biomedical Ultrasound Applications: Contact Mechanics Finite Element Analysis and Validation, IEEE International Ultrasonics Symposium (IEEE, IUS) Taipei, Taiwan, 21-24 October 2015.

- [96] Yang, J., Hutchins, D.A., O. Akanji, **THOMAS, P.J.**, Davis, L.A.J., Freear, S., Harput, S., Saffari, N., Gelat, P. (2015) Molecular Dynamics Simulation of Nonlinear Waves in Granular Media, IEEE International Ultrasonics Symposium (IEEE, IUS) Taipei, Taiwan, 21-24 October 2015.
- [95] Hutchins, D.A., Yang, J., O. Akanji, **THOMAS, P.J.**, Davis, L.A.J., Freear, S., Harput, S., Saffari, N., Gelat, P. (2015) The Generation of Impulses from Narrow Bandwidth Signals Using Resonant Spherical Chains, IEEE International Ultrasonics Symposium (IEEE, IUS) Taipei, Taiwan, 21-24 October 2015.
- [94] Murai, Y., Yokohama, S., Vlaskamp, J.H.A., Thomas, P.J. (2015) Two-Phase Flow Dynamics of a Bubble Plume in a Rotating System. In Proc. 7<sup>th</sup> European-Japanese Two-Phase-Flow Group Meeting, pp. 172-178, Zermatt, Switzerland, 11-15 October
- [93] Tan, C.-W., Vlaskamp, J., Denissenko, P., **THOMAS, P.J.** (2015) New Phenomena Observed Following the Entry of Rigid Spheres into a Stratified Two-Layer System of Immiscible Fluids. XXXV Dynamic Days Europe 2015, Exeter, UK, 6-10 Sept. 2015
- [92] Murai, Y., Tasaka, Y., Vlaskamp, J., Denissenko, P., **THOMAS, P.J.** (2015) Experimental Study of Convection Driven by a Bubble Plume in Background Rotation, 93<sup>rd</sup> Fluids Eng. Conf., Fluids Engineering Division, Japan Society of Mechanical Engineers (JSME), Tokyo, Japan, 7-8 November 2015.
- [91] Hutchins, D.A., Yang, J., O. Akanji, **THOMAS, P.J.**, Davis, L.A.J., Freear, S., Harput, S., Saffari, N., Gelat, P. (2015) Use of Resonances in Chains of Spheres to Generate Trains of Impulses from Single Frequency Inputs, PHONONICS 2015: 3<sup>rd</sup> Int. Conf. on Phononic Crystals/Metamaterials, Phonon Transport and Phonon Coupling, Paris, France, May 31-June 5 2015.
- [90] Hutchins, D.A., Yang, J., O. Akanji, **THOMAS, P.J.**, Davis, L.A.J., Freear, S., Harput, S., Saffari, N., Gelat, P. (2015) Generation of Impulses from Single Frequency Inputs Using Non-Linear Propagation in Spherical Chains, Int. Cong. on Ultrasonics, ICU2015/152, Metz, France, May 31-June 5 2015, published in *Phys. Procedia* 70, pp. 131-134..
- [89] Vangestel, B., Chung, Y., Leadbetter, T., **THOMAS, P.J.** (2015) Experimental PEPT in Water Drainage Techniques with Inclined Louvers. 7th European Meeting on Chemical Industry and Environment, Tarragona, Spain, 10-12 June 2015.
- [88] Bishop, A.C., **THOMAS, P.J.**, Denissenko, P. (2015) Surfactant Concentration and its Effect on the Flow Field Inside an Oil Droplet Rising in an Aqueous Medium: LIF and PIV Measurements. 8<sup>th</sup> International Conference on Computational and Experimental Methods in Multiphase and Complex Fluids, Valencia, Spain, In Computational Methods in Multiphase Flow VIII, WIT Trans. on Eng. Sci. vol. 89, edited by Vorobieff, P., Brebbia, C.A. & Munoz-Cobo, J.L., Print ISBN 978-1-84564-946-3, Online ISBN 1743-3533, 20-22 April 2015.
- [87] Bishop, A.C., **THOMAS, P.J.**, Denissenko, P. (2015) Using LIF and PIV to Study the Stagnant Cap Formation on the Interface of an Oil Droplet Rising in an Aqueous Solution Containing a Surfactant. 4<sup>th</sup> Joint British Mathematical Colloquium & British Applied Mathematics Colloquium, University of Cambridge, Cambridge, UK, 30<sup>th</sup> March – 2<sup>nd</sup> April.
- [86] Tan, C.-W., **THOMAS, P.J.**, (2015) Cavity Formation Behind Steel Spheres Impinging on a Two-Layer Stratified System of Immiscible Liquids. 4<sup>th</sup> Joint British Mathematical Colloquium & British Applied Mathematics Colloquium, University of Cambridge, Cambridge, UK, 30<sup>th</sup> March – 2<sup>nd</sup> April.
- [85] Özkan, M., Harris, J.M., Garrett, S.J., Cooper, A.J. **THOMAS, P.J.**, (2014) Effects of Anisotropic Surface Roughness on the Boundary-Layer Transition Over a Rotating Disk. In Book of Abstracts (p. 390) of the European Fluid Mechanics Conference 10 (EFMC10), Copenhagen, Denmark, 15-18 September 2014.
- [84] **THOMAS, P.J.**, Denissenko, P., Guyez, E., Parker, D.J., Seville, J.P.K. (2014) Positron Emission Particle Tracking in Particle-Laden Rimming Flow. In Book of Abstracts (p. 315) of the European Fluid Mechanics Conference 10 (EFMC10), Copenhagen, Denmark, 15-18 September 2014.
- [83] Warnett, J.M., **THOMAS, P.J.**, Denissenko, P. Norman, D., Williams, M.A. (2014) Probing the Axisymmetric Collapse of Granular Columns with the Use of X-Ray Tomography. In Book of Abstracts (p. 50) of the European Fluid Mechanics Conference 10 (EFMC10), Copenhagen, Denmark, 15-18 September 2014.
- [82] Yang, J., Omololu, A., Hutchins, D., **THOMAS, P.J.** (2014) Time-Delay Estimation and Correlation Analysis of Acoustic Signals in Granular Media Using Wavelet Decomposition. In

- Book of Abstracts (p. 659) of the IEEE International Ultrasonics Symposium, Chicago, Illinois, USA, 3-6 September 2014.
- [81] Hutchins D., Yang, J., Omololu, A., **THOMAS, P.J.**, Freear, S., Harput, S., Saffari, N., Gelat, P. (2014) The Study of Chain-Like Materials for Use in Biomedical Ultrasound. In Book of Abstracts (p. 679-680) of the IEEE International Ultrasonics Symposium, Chicago, Illinois, USA, 3-6 September 2014.
- [80] **THOMAS, P.J.**, Denissenko, P., Guyez, E., Parker, D., Seville, J.P.K., (2014) Positron-Emission Particle-Tracking Experiments in Particle-Laden Rimming Flow. Granular and Particle-Laden Flows Symposium, University of Nottingham, UK
- [79] Cooper, A.J., Garrett, S.J., Harris, J.H., Ozkan, M., **THOMAS, P.J.** (2014) A Theoretical and Experimental Study of the Effects of Anisotropic and Isotropic roughness on the Convective Stability of the Rotating-Disk Boundary Layer, Fluid Mechanics: An Interdisciplinary Approach, Madingley Hall, Cambridge, UK, 23-25 July 2014.
- [78] **THOMAS, P.J.**, Denissenko, P., Guyez, E., Parker, D., Seville, J.P.K. (2013) Positron-Emission Particle-Tracking Experiments in Particle-Laden Rimming Flow. 9<sup>th</sup> Japan-UK Seminar on Multiphase Flows 16<sup>th</sup>-18<sup>th</sup> September, Brunel University, London, UK
- [77] Aikawa Y., Nambu, Y., Oishi, Y., Tasaka, Y., Murau, Y., **THOMAS, P.J.** (2013) Structure of a Vortex Ring Impacting on a Solid Boundary with Background Rotation. 4<sup>th</sup> International Conference on Jets, Wakes and Separated Flows ICJWSF2013, Nagoya Japan, 17-21 September 2013.
- [76] Warnett J., **THOMAS, P.J.**, Denissenko, P. (2013) Granular Collapse in Rotating Environments. 2nd IMA Conference on Dense Granular Flows, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK, 1-4 July 2013.
- [75] Warnett J., **THOMAS, P.J.**, Denissenko, P. (2012) Axisymmetric Column Collapse in Rotating Systems. Abstract in Bulletin of the American Physical Society 57, no. 17, p. 242-243, Program of the 65<sup>th</sup> Annual Meeting of the Division of Fluid Dynamics, San Diego, California, USA, 18-20 November 2012, ISSN 0003-0503.
- [74] Garrett, S.J., Harris J. H. **THOMAS, P.J.**, (2012) On the Effect of Surface Roughness on the Transition over rotor-stator devices. *Proc. Int. Council Aeronautical Science 2012 ICAS 2012*, Brisbane, Australia.
- [73] Harris J. H. **THOMAS, P.J.**, Garrett, S.J. (2012) The Stability of Flows Over Rotating Disks with Distributed Roughness. Euromech 9<sup>th</sup> European Fluid Mechanics Conference, University of Rome "Tor Vergata", September 9-13, Extended Abstract at: [www.efmc9.eu/absbook/files/0201\\_IN3\\_Harris\\_Joseph.pdf](http://www.efmc9.eu/absbook/files/0201_IN3_Harris_Joseph.pdf).
- [72] Harris J. H. **THOMAS, P.J.**, Garrett, S.J. (2012) On the Stability of Flows Over Rough Rotating Disks. Proceedings of the 42<sup>nd</sup> AIAA Fluid Dynamics Conference, New Orleans, Louisiana, USA, 25-28 June.
- [71] Gregorio, S.O., **THOMAS, P.J.**, Haidvogel, D.B., Skeen, A., Taskinoglu, E. (2011) A Comparison between Laboratory and Numerical Simulations of Gravity-Driven Coastal Currents with a Geostrophic Theory. Abstract in Bulletin of the American Physical Society 56, no. 18, p. 348-349, Program of the 64<sup>th</sup> Annual Meeting of the Division of Fluid Dynamics, Baltimore, Maryland, USA, 20-22 November 2011, ISSN 0003-0503.
- [70] Vlaskamp, J.H.A., **THOMAS, P.J.**, Hollerbach, R., Kerr, R.M. (2011) Taylor Columns in Deep Water: Testing the Limits of the Taylor- Proudman Theorem. Abstract in Bulletin of the American Physical Society 56, no. 18, p. 140-141, Program of the 64<sup>th</sup> Annual Meeting of the Division of Fluid Dynamics, Baltimore, Maryland, USA, 20-22 November 2011, ISSN 0003-0503.
- [69] **THOMAS, P.J.**, Guyez, E (2011) Segregation-Band Dynamics in Particle-Laden Rimming Flow. EUROMECH Colloquium 525 on Instabilities and Transition in Three-Dimensional Flows with Rotation, extended Abstract published in Book of Abstracts, Lyon, France, 21-23 June.
- [68] Vlaskamp, J.H.A, **THOMAS, P.J.**, Hollerbach, R., Kerr, R.M. Bryanston-Cross, P. (2011). Taylor-Columns in Deep Water: Testing the Limits of the Taylor-Proudman Theorem. 53<sup>rd</sup> British Applied Mathematics Colloquium, University of Birmingham, Birmingham UK, 11<sup>th</sup>-13<sup>th</sup> March.
- [67] Nambu, Y., Murai, Y., **THOMAS, P.J.** (2010) Vortex Ring Impinging upon a Wall in Background Rotation. 8<sup>th</sup> Japan-UK Seminar on Multiphase Flows 13<sup>th</sup>-15<sup>th</sup> September, Otaru City, Hokkaido, Japan

- [66] Vlaskamp, J.H.A., **THOMAS, P.J.**, Hollerbach, R., Kerr, R.M. (2010) A Stereo-PIV Study of the Taylor Column Generated by a Rotating Disk. Abstract in Bulletin of the American Physical Society 55, no. 16, p. 348, Program of the 63<sup>rd</sup> Annual Meeting of the Division of Fluid Dynamics, Long Beach, California, USA, 21-23 November 2010, ISSN 0003-0503.
- [65] Brend, M.A., Skeen, A.J., **THOMAS, P.J.**, Bryanston-Cross (2010) The Effects of Background Rotation upon Vortex Rings. In: Book of Abstracts, p. S15-3, 8<sup>th</sup> Euromech Fluid Mechanics Conference, Bad Reichenhall, September 13-16 (First author, M.A. Brend, was presented the Euromech Fluid Mechanics Young Scientist Award for this paper during the closing session of the conference.)
- [64] **THOMAS, P.J.**, Linden, P.F. (2010) A Laboratory Study of the Effects of Temporal Changes of Estuarine-fresh-water Discharge Rates on the Propagation Speed of Oceanographic Coastal Currents. In: Book of Abstracts, p. S14-7, 8<sup>th</sup> Euromech Fluid Mechanics Conference, Bad Reichenhall, September 13-16
- [63] Gregorio, S.O., **THOMAS, P.J.**, Haidvogel, D.B., Skeen, A., Taskinoglu, E., Linden, P.F. (2010) Laboratory Experiments and Numerical Simulations of Gravity-Driven Coastal Currents. In: Book of Abstracts, p. S14-6, 8<sup>th</sup> Euromech Fluid Mechanics Conference, Bad Reichenhall, September 13-16
- [62] Vlaskamp, J.H.A., **THOMAS, P.J.**, Hollerbach, R., Kerr, R.M. (2010) A 3D-PIV Study into the Stability of Stewartson Layers Generated by a Rotating Disk. In: Book of Abstracts, p. S3-32, 8<sup>th</sup> Euromech Fluid Mechanics Conference, Bad Reichenhall, September 13-16
- [61] **THOMAS, P.J.**, Gregorio, S., Brend, M. (2010) Laboratory Simulations Investigating Effects of the Bottom Topography on the Dynamics of Oceanographic Coastal Currents. In Proceedings of the HYDRALAB III Joint Transnational ACCESS User Meeting (editors Joachim Grüne & Mark Klein Breteler) ISBN-978-3-00-030141-4, Hannover, 2<sup>nd</sup>-4<sup>th</sup> February, pp. 127-130.
- [60] Vlaskamp, J., **THOMAS, P.J.**, Hollerbach, R. (2009) Effect of the Sign of  $Ro$  on the Stability of Stewartson Layers Generated by a Rotating Disc". Abstract in Bulletin of the American Physical Society 54, no. 19, p. 290 Program of the 62<sup>nd</sup> Annual Meeting of the Division of Fluid Dynamics, Minneapolis, Minnesota, USA, 22-24 November 2009, ISSN 0003-0503.
- [59] Pedcenko, A., Molokov, S., Priede, J., Lukyanov, A., **THOMAS, P.J.**, (2009) Experimental Results on Instability in Aluminium Reduction Cells, Book of Abstracts. UK MHD Conference, Coventry University, Coventry, UK, 3-4 June, p. 13.
- [58] **THOMAS, P.J.**, Guyez, E. (2009) The Spatiotemporal Dynamics of Segregation-Band Drift in Particle-Laden Rimming Flow, Inst. Math. and its Applications Conf. on Dense Granular Flows, Isaac Newton Institute, Cambridge, UK, 5-9 January.
- [57] Takahiro, Y., Vlaskamp, J., Brend, M., **THOMAS, P.J.**, Murai, Y., Takeda, Y. (2008) Twisted Wake of a Sphere in Rotating Flow. Abstract in Bulletin of the American Physical Society 53, no. 15, pp. 124-125 Program of the 61<sup>st</sup> Annual Meeting of the Division of Fluid Dynamics, San Antonio, Texas, USA, 23-25 November 2008, ISSN 0003-0503.
- [56] **THOMAS, P.J.**, Zoueshtiagh, F., Merlen, A., Thomy, V. (2008) Micro Ripples, Sand Ripples and their Universal Wavelength Scaling, talk presented at the *EUROMECH*, 7<sup>th</sup> European Fluid Mechanics Conference (EFMC7), University of Manchester, Manchester, UK, 14-18 September 2008. Extended Abstract published on p.332 in Book of Abstracts.
- [55] Guyez, E., **THOMAS, P.J.** (2008) Dynamics of Band Drift in Particle-Laden Rimming Flow, talk presented at the *EUROMECH*, 7<sup>th</sup> European Fluid Mechanics Conference (EFMC7), University of Manchester, Manchester, UK, 14-18 September 2008. Extended Abstract published on p.130 in Book of Abstracts.
- [54] Gregorio, S.O., **THOMAS, P.J.**, Brend, M.A., Ellingsen, I.H., Linden, P.F. (2008) Oceanographic Coastal Currents over Bottom Slopes, talk presented at the *EUROMECH*, 7<sup>th</sup> European Fluid Mechanics Conference (EFMC7), University of Manchester, Manchester, UK, 14-18 September 2008. Extended Abstract published on p.125 in Book of Abstracts.
- [53] Pedcenko, A., Molokov, S., **THOMAS, P.J.**, Lukyanov, A., Priede, J. (2008) Experimental Study of Interfacial Instability in Aluminium Reduction Cells, Proc. 7<sup>th</sup> *PAMIR* Conference on Fundamental and Applied MHD, Presquile de Giens, France, 8-12 September, pp. 923-927.
- [52] Gregorio, S.O., **THOMAS, P.J.**, Brend, M.A., Ellingsen, I.H., Linden, P.F. (2008) Effects of the Bottom Topography on Gravity-Driven Oceanographic Coastal Currents, talk presented at *EUROMECH* Colloquium 501 on 'Mixing of Coastal, Estuarine and Riverine Shallow Flows',

- Instituto di Idraulica e Infrastrutture Viarie, Università Politecnica delle Marche, Ancona, Italy
- [51] Guyez, E., **THOMAS, P.J.** (2008) Particle-Laden Rimming Flow: Dynamics of Segregation Banding, 50<sup>th</sup> British Applied Mathematics Colloquium, Manchester, 31<sup>st</sup> March-3<sup>rd</sup> April.
- [50] Oishi, Y., Brend, M.A., **THOMAS, P.J.**, Murai, Y., Takeda, Y. (2008) Measurement of Oscillating Vortex Ring of Fundamental Mode Using Color PTV, to be published in Proceedings of the 36<sup>th</sup> Visualization Symposium, organized by the Visualization Society of Japan, 22-23 July, Tokyo, Japan
- [49] Grégorio, S.O., **THOMAS, P.J.**, Brend, M.A., Linden, P.F. (2008) Large-Scale and Small-Scale Laboratory Simulations of Gravity-Driven Coastal Currents, Ocean Sciences Meeting, Orlando, Florida, 2-7 March.
- [48] Molokov, S., Pedcenko, A., **THOMAS, P.J.**, Lukyanov, A., Priede, J. 2008 Theoretical and Experimental Study of Interfacial Instability in Aluminium Reduction Cells, to be presented at the 7<sup>th</sup> PAMIR International Conference on Fundamental and Applied MHD, Presque ile de Giens, France, 8-12 September
- [47] Merlen, A., Zoueshtiagh, F., **THOMAS, P.J.** (2008) Particle Separation by Oscillation in a Capillary Tube. To be published in Proceedings of the 6<sup>th</sup> International Conference on Nanochannels, Microchannels and Minichannels, Paper No. ICNMM2008-62122, Darmstadt, Germany, 23-25 June.
- [46] Guyez, E., **THOMAS, P.J.** (2007) Spatio-Temporal Segregation-Pattern Drift in Particle-Laden Rimming Flow. in: Bulletin of the American Physical Society 52, Program of the 60<sup>th</sup> Annual Meeting of the Division of Fluid Dynamics, Salt Lake City, Utah, USA, 18-20 November 2007, ISSN 0003-0503.
- [45] Merlen, A., Zoueshtiagh, F., **THOMAS, P.J.**, Thomy, V. (2007) Universality of Micrometric Ripples in a Capillary Tube, 1<sup>st</sup> France-China Symposium in Microfluidics, Beijing, China, Oct. 29-Nov. 2.
- [44] Merlen, A., Zoueshtiagh, F., **THOMAS, P.J.**, Thomy, V. (2007) Micrometric Ripples in a Capillary Tube, the Effect of Micro Gravity, accepted for presentation at the 2<sup>nd</sup> Workshop on Two-Phase Systems for Ground and Space Applications, Kyoto, Japan, Oct. 26-28, (paper to be published in special issue of *J. Micrograv. Sci.*)
- [43] Rostami, M., Ardeshir, A., Ahmadi, G., **THOMAS, P.J.** (2007) Evaluation of the Accuracy of White Light PIV Technique for Flow-Velocity Measurements, In Proceedings of the 7<sup>th</sup> Int. Symp. on Particle Image Velocimetry, Rome, Italy 11-14 Sept. (Contribution 10%)
- [42] Grégorio, S.O., **THOMAS, P.J.**, Linden, P.F., Levin, J.C., Haidvogel, D.B., Taskinoglu, E.S. (2007) Investigation of gravity-driven coastal currents. Proceedings of: 18<sup>ème</sup> Congrès Français de Mécanique, Grenoble, 27-31 August.
- [41] **THOMAS, P.J.**, Linden, P.F., Grégorio, S.O., Levin, J.C., Haidvogel, D.B. (2007) Oceanographic coastal currents: Small-scale and large-scale laboratory simulations and a geostrophic model. (Invited Talk) *Geophysical Research Abstracts* Vol. 9, ISSN: 1029-7006, published by the European Geosciences Union, CD containing abstracts of talks presented at the EGU General Assembly, Vienna, 15-20 April.
- [40] Brend, M.A., **THOMAS, P.J.** Carpenter, P.W. (2006) Experiments on Vortex-Ring Dynamics in a Rotating Fluid. Abstract published on p.111 in Book of Abstracts (Vol. 1), *EUROMECH* Fluid Mechanics Conference (EFMC6)
- [39] Zoueshtiagh, F., Thomy, V. **THOMAS, P.J.** (2006) Granular Micro Ripples in a capillary Tube. Abstract published on p.332 in Book of Abstracts (Vol. 2), *EUROMECH* Fluid Mechanics Conference (EFMC6)
- [38] Brend, M.A., **THOMAS, P.J.** (2006) Effects of Background Rotation on Vortex Rings. Paper presented at the annual half-day meeting on *The Dynamics of Rotating Fluids*, held at Department of Mathematics, University College London, 6 January 2006.
- [37] **THOMAS, P.J.** (2005) The Latest on Segregation-Banding in Suspensions: From Benchtop Experiments to a New Large-Scale Rotating-Tank Facility. In: Bulletin of the American Physical Society 50, No. 9, pp.141-142, Program of the 58<sup>th</sup> Annual Meeting of the Division of Fluid Dynamics, Chicago, Illinois, USA, 20-22 November 2004, ISSN 0003-0503.
- [36] Brend, M.A., **THOMAS, P.J.**, Xiao, Z., Carpenter, P.W., Verzicco, R. (2005) Experiments with a

New, Unique Large-Scale Rig Investigating the Effects of Background System Rotation on Vortex Rings in Water. In: Bulletin of the American Physical Society 50, No. 9, pp.165, Program of the 58th Annual Meeting of the Division of Fluid Dynamics, Chicago, Illinois, USA, 20-22 November 2004, ISSN 0003-0503.

- [35] **THOMAS, P.J.** (2005) Density-Driven Oceanographic Coastal Currents: a geostrophic model and laboratory simulations, invited talk presented at the 'Workshop on Dynamical Systems, Fluid Dynamics and Turbulence' 31 October - 2 November, Department of Mathematics, University of Warwick.
- [34] Brend, M.A., **THOMAS, P.J.** (2005), The Effects of Background Rotation on Vortex Rings, invited talk presented at the 'Workshop on Dynamical Systems, Fluid Dynamics and Turbulence' 31 October - 2 November, Department of Mathematics, University of Warwick.
- [33] Inaba, K., Kitaura, H., Murai, Y., Xiao, Z., **THOMAS, P.J.**, Brend, M., Takeda, Y. (2005), Analysis of a Vortex Ring in Rotating Field Using Multi-Dimensional UVP, in the 'Book of Abstracts, 14<sup>th</sup> International Couette-Taylor Workshop', 5-7 September, Hokkaido University, Sapporo, Japan, pp. 99-100.
- [32] **THOMAS, P.J.**, Z. Xiao, M.A. Brend, P.W. Carpenter (2005) Experimental Investigation of the Influence of Background System Rotation on the Dynamics and the Stability of Vortex Rings, talk presented at the Conference 'Recent Advances in Nonlinear Mechanics', University of Aberdeen, Aberdeen, Scotland, 30 August –1 September 2005.
- [31] **THOMAS, P.J.** (2005) Experimental Investigation of the Influence of Background Rotation on the Dynamics and the Stability of Vortex Rings, invited talk, presented at the Conference on Vortex Rings and Filaments in Classical and Quantum Systems, The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, 6-8 June 2005.
- [30] Murai, Y., Kitaura, H., Xiao, Z., **THOMAS, P.J.**, Takeda, Y. (2004) Study of Vortex-Ring Dynamics Using UVP In: *Proceedings of the Fourth International Symposium on Ultrasonic Doppler Method for Fluid Mechanics and Fluid Engineering*, Hokkaido University, Sapporo, Japan, 6-8 September 2004, pp. 3-8.
- [29] **THOMAS, P.J.** , Linden, P.F., Marah, D. (2004) Modelling Oceanographic Coastal Currents in Small-Scale and Large-Scale Laboratory Experiments, Extended abstract published in: Abstract Book and CD-ROM Proceedings, Program of the 21<sup>st</sup> International Congress of Theoretical and Applied Mechanics, International Union of Theoretical and Applied Mechanics, Warsaw, Poland, 15-21 August 2004, ISBN 83-89687-01-1. Note: The extended abstract of this talk is also published on the CD-ROM appended to the book *Mechanics of the 21<sup>st</sup> Century*, editors W. Gutkowski & T.A. Kowalewski, ISBN 1-4020-3456-3, Springer, 2005.
- [28] **THOMAS, P.J.**, Colley, A.J., Carpenter, P.W., Ali, R., Zoueshtiagh, F. (2003) Measurement of Type-II Eigenmode Destabilization in Boundary-Layer Transition Over a Rotating, Compliant Disk. In: Bulletin of the American Physical Society 48, No.10, pp.148-149, Program of the 56th Annual Meeting of the Division of Fluid Dynamics, East Rutherford, New Jersey, USA, 23-25 November 2003, ISSN 0003-0503.
- [27] **THOMAS, P.J.** Zoueshtiagh, F. (2003) Granular Ripples Under Rotating Flow. Paper presented at Newton Institute Workshop on *Geophysical Granular and Particle-Laden Flows*, Bristol, U.K., 27-31 October.
- [26] **THOMAS, P.J.** Zoueshtiagh, F., Ali, R., Carpenter, P.W. (2003) Boundary-Layer Transition Over a Rough Rotating Disk. In: Abstract volume for the *5th EUROMECH Fluid Mechanics Conference*, p. 394, Toulouse, France, 24-28 August.
- [25] **THOMAS, P.J.**, Cros, A., Ali, R., Le Gal, P., Schouveiler, L., Carpenter, P.W., Chauve, M.P. 2002 Experiments on the Influence of Wall Compliance on the Laminar-Turbulent Transition of Torsional Couette Flow. Abstract of talk published in *Bulletin of the American Physical Society* (ISSN 0003-0503), 47, No. 10, pp. 137-138, Program of the 55<sup>th</sup> Annual Meeting of the Division of Fluid Dynamics, Dallas, Texas, USA, 24-26 November.
- [24] **THOMAS, P.J.** 2002 Stars and Stripes in Jars and Pipes : Patterns in Rotating Suspensions. Invited talk given at the *Particle Size Segregation, Mixing and Pattern Formation in Granular*

Media workshop, St. Martins College, Lancaster, UK, 11-16 August 2002.

- [23] **THOMAS, P.J.**, Zoueshtiagh, F., del Mar Flexas, M., Linden, P.F., Sommeria, J. 2001 Experiments on Gravity-Driven Surface Currents Simulating Fresh-Water River Discharges into the Ocean. Published as paper presented at the 3<sup>rd</sup> International Symposium on Environmental Hydraulics, Arizona State University, Tempe, Arizona, USA, 5-8 December 2001.
- [22] **THOMAS, P.J.**, Riddell, G.D., King, G.P. 2001 Granular Banding – The Fine Structure. Abstract of talk published in *Bulletin of the American Physical Society* (ISSN 0003-0503), 46, No. 10, p. 223, Program of the 54<sup>th</sup> Annual Meeting of the Division of Fluid Dynamics, San Diego, California, USA, 18-20 November 2001.
- [21] **THOMAS, P.J.**, del Mar Flexas, M., Zoueshtiagh, F., Linden, P.F., Sommeria, J. 2001 Simulating River Discharges into the Ocean – Small Scale vs. Large Scale Experiments. Abstract of talk published in *Bulletin of the American Physical Society* (ISSN 0003-0503), 46, No. 10, p. 115, Program of the 54<sup>th</sup> Annual Meeting of the Division of Fluid Dynamics, San Diego, California, USA, 18-20 November 2001.
- [20] **THOMAS, P.J.**, Picarelli, A. 2001 Bubbles in Trouble. Abstract of talk published in *Bulletin of the American Physical Society* (ISSN 0003-0503), 46, No. 10, p. 60, Program of the 54<sup>th</sup> Annual Meeting of the Division of Fluid Dynamics, San Diego, California, USA, 18-20 November 2001.
- [19] Zoueshtiagh, F., **THOMAS, P.J.** 2001 Granular Ripple Patterns in Fluvial Systems. Paper presented at Sand-Fluid Interface Workshop, 2-5 May, Paris, France
- [18] Cros, A., Ali, R., Schouveiler, L., **THOMAS, P.J.**, Le Gal, P., Chauve, M.P., Carpenter, P.W., Davies, C. 2001 Transition of torsional Couette flow between a compliant rotating disk and a stationary rigid wall. In: Symposium book of IUTAM Symposium on ‘Flow in collapsible tubes and past other highly compliant boundaries’ University of Warwick, Coventry, 26-30 March, published by Kluwer Academic Publishers.
- [17] **THOMAS, P.J.**, Riddell, G.D., Kooner, S., King, G.P. 2000 Flow patterns in two-phase rimming flow. In: *Book of Abstracts*, p.177, 4<sup>th</sup> EUROMECH Fluid Mechanics Conference, Eindhoven, The Netherlands, 19-23 November, published by Universiteit Eindhoven, ISBN 90-386-2652-5.
- [16] Zoueshtiagh, F., **THOMAS, P.J.** 2000 Wavelength scaling of ripple patterns in rotating and non-rotating fluvial systems. In: *Book of Abstracts*, p.178, 4<sup>th</sup> EUROMECH Fluid Mechanics Conference, Eindhoven, The Netherlands, 19-23 November, published by Universiteit Eindhoven, ISBN 90-386-2652-5.
- [15] Zoueshtiagh, F., **THOMAS, P.J.** 2000 Computational and experimental study of spiral patterns in granular media under a rotating fluid. In *Abstract Book* of the 20th International Congress of Theoretical and Applied Mechanics (organized by Int. Union of Theor. and Appl. Mech.), 27 August - 2 September, Chicago, USA. *Abstract Book* published as *Tech. Report* no. 950, ISSN 0073-5264, Dept. of Theor. and Appl. Mech., University of Illinois at Urbana-Champaign.
- [14] Zoueshtiagh, F., **THOMAS, P.J.** 2000 Fluvial Ripple Patterns in Rotating and Non-Rotating Systems. Paper presented at XVII Sitges Euroconference on Coherent Structures in Classical Systems, 5-9 June 2000, Sitges, Spain.
- [13] **THOMAS, P.J.**, Zoueshtiagh, F. 2000 A Cellular-Automaton Model to Simulate Spiral Patterns in Granular Media Underneath a Rotating Fluid (Invited Talk). Abstract published in *Program of British Applied Mathematics Colloquium*, UMIST, Manchester, 25-28 April 2000.
- [12] **THOMAS, P.J.**, Colley, A.J., Carpenter, P.W., Cooper, A.J., 1999 Experiments on Boundary-Layer Transition Over a Rotating, Compliant Disc. Abstract of talk published in *Bulletin of the American Physical Society* (ISSN 0003-0503), 44, No. 8, p. 58-59, Program of the 52<sup>nd</sup> Annual Meeting of the Division of Fluid Dynamics, New Orleans, Louisiana, USA, 21-23 November 1999.
- [11] Zoueshtiagh, F., **THOMAS, P.J.** 1999 Ripple Patterns in Granular Media Underneath a Rotating Fluid. Abstract of talk published in *Bulletin of the American Physical Society* (ISSN 0003-0503), 44, No. 8, p. 47, Program of the 52<sup>nd</sup> Annual Meeting of the Division of Fluid Dynamics, New

Orleans, Louisiana, USA, 21-23 November 1999.

- [10] Zoueshtiagh, F., **THOMAS, P.J.** 1999 Spiral Patterns Formed by Granular Media Underneath a Rotating Fluid - Experiment vs. Computation. Poster contribution to the *Gallery of Fluid Motion* contest held at the 52nd Annual Meeting of the Division of Fluid Dynamics, New Orleans, USA, 21-23 November 1999. The poster was selected as one of the winning entries to the contest.
- [9] **THOMAS, P.J.**, Boote, O. 1998 Experiments on the Effects of Granular Additives on Transitions between Flow States of a Rimming Flow. Abstract of talk published in *of the American Physical Society* (ISSN 0003-0503), 43 , No. 9, p. 1991, Program of the 51st Annual Meeting of the Division of Fluid Dynamics, Philadelphia, Pennsylvania, USA, 22-24 November 1998.
- [8] **THOMAS, P.J.**, Linden, P.F. 1997 Experiments on the Influence of a Sloping Bottom on the Dynamics of Boundary Currents in a Rotating System . Abstract of talk published in *Bulletin of the American Physical Society* (ISSN 0003-0503), 42, No. 11, p. 2200, Program of the 50th Annual Meeting of the Division of Fluid Dynamics, San Francisco, California, USA, 23-25 November 1997.
- [7] Colley, A.J., **THOMAS, P.J.**, Carpenter, P.W. 1997 An experimental study of the stability of the boundary-layer over a rotating disk covered with a compliant coating. Talk presented by THOMAS, P.J. Abstract of talk published in: *Book of Abstracts of the 3rd European Fluid Mechanics Conference*, Göttingen, Germany 15-18 September.
- [6] **THOMAS, P.J.** 1996 The response behaviour of seeding particles to a flow region with a large spatial velocity gradient. Abstract of talk published in *Bulletin of the American Physical Society* (ISSN 0003-0503), 41, No. 9, p. 1804, Program of the 49th Annual Meeting of the Division of Fluid Dynamics, Syracuse, New York, USA, 24-26 November 1996.
- [5] **THOMAS, P.J.**, Linden, P.F. 1996 An experimental study of gravity currents in a rotating frame of reference . Abstract of talk published in *Book of abstracts of the XIXth International Congress of Theoretical and Applied Mechanics*, p.493, Kyoto, Japan, 25-31 August 1996. Paper was awarded the IUTAM Bureau Prize in fluid dynamics for the outstanding contribution by a younger scientist.
- [4] **THOMAS, P.J.**, Linden, P.F. 1995 A laboratory simulation of mixing across tidal fronts. Abstract of talk published in *Bulletin of the American Physical Society* (ISSN 0003-0503), 40, No. 12, p. 1997, Program of the 48th Annual Meeting of the Division of Fluid Dynamics, Irvine, California, USA, 19-21 November 1995.
- [3] **THOMAS, P.J.** 1994 Pattern formation of granules on the bottom of a differentially rotating tank. Abstract of talk published in *Abstracts of papers of the 2<sup>nd</sup> European Fluid Mechanics Conference*, Warsaw, Poland, 20-24 September 1994.
- [2] Leuchter, O., Amram, K., **THOMAS, P.J.** 1992 Etude theorique et experimentale du comportement des particules a la traversée d'une onde de choc. In: *Proc. of 3<sup>ème</sup> Congres Francophone de velocimetrie Laser*, pp. 1.3.1-1.3.8, Toulouse, France, 21-24 September 1992 (organized by CERT-ONERA).
- [1] **THOMAS, P.J.** 1991 Folgeverhalten von Teilchen unter dem Einfluß großer Geschwindigkeitsgradienten (English Translation of title: Motion of particles under the influence of large velocity gradients). Abstract of talk published in: Proc. STAB Workshop, Nov. 1991, Göttingen, Germany

### **C) Other Publications**

- [4] Kitaura, H., Murai, Y., Takeda, Y. **THOMAS, P.J.** (2010) Velocity Vector Field Measurement of Vortex Ring Using UVP (in Japanese). *Trans. Japanese Soc. Mech. Eng.*, 76(12), no. 772.



- [3] Pedcenko, A., Molokov, S., **THOMAS, P.J.**, Lukyanov, A., Priede, J. (2008) Transfer Report on the Aluminium Smelting Project, Coventry University, 31 Oct., 24 pages.
- [2] **THOMAS, P.J.** 1991 Experimentelle und theoretische Untersuchungen zum Folgeverhalten von Teilchen unter dem Einfluß großer Geschwindigkeits-gradienten in kompressibler Strömung (English translation of title: Experimental and theoretical investigations of the particle lag of particles under the influence of large velocity gradients in compressible flow. Ph.D. Thesis, Georg-August-Universität Göttingen. Published by Deutsche Forschungsanstalt für Luft- und Raumfahrt (DLR) (German Aerospace Research Establishment) as *Research Report* DLR-FB 91-25, ISSN 0939-2963.
- [1] **THOMAS, P.J.** 1988 Experimentelle Untersuchung von Stabwirbeln in Wasser (English translation of title: Experimental investigation of rectilinear vortices in water, Diplom Thesis, Georg-August-Universität Göttingen. Published by Max-Planck-Institut für Strömungsforschung as Report 15/1988, ISSN 0436-1199.

#### ***D) Invited National and International Research Seminars since 1994***

- [45] **THOMAS, P.J.** (2016) Sharks, Aeroplanes and the Rotating-Disk Boundary Layer. Seminar given to Department of Engineering, University of Cambridge, Cambridge, UK, 25 April.
- [44] **THOMAS, P.J.** (2016) Complexity, Segregation and Pattern Formation in Particle-Laden Rotating-Drum Flows. Seminar given to Department of Mathematics, University of Cardiff, Cardiff, UK, 16 February.
- [43] **THOMAS, P.J.** (2015) Effects of Surface Roughness on the Stability of the Rotating-Disk Boundary Layer, Seminar given to German Aerospace Centre (Deutsche Forschungsanstalt für Luft- und Raumfahrt, DLR), Göttingen, Germany, 2 October.
- [42] **THOMAS, P.J.** (2015) Particle-Laden Flows in Rotating Drums: The Silent Secrets, Seminar given to the Department of Chemical Engineering, University of Cambridge, Cambridge, UK, 11 February.
- [41] **THOMAS, P.J.** (2015) Particle-Laden Flows in Rotating Drums: The Silent Secrets, Seminar given to the KTH Royal Institute of Technology, School of Engineering Sciences, Stockholm, Sweden, 29 January.
- [40] **THOMAS, P.J.** (2011) Secrets of a Seemingly Simple System: Segregation in Particle-Laden Rimming Flow, Seminar given to Department of Engineering, University of Cambridge, Cambridge, UK, 29 November.
- [39] **THOMAS, P.J.** (2010) Secrets of a Seemingly Simple System: Segregation in Particle-Laden Rimming Flow, Seminar given to Department of Mathematics, University of Leicester, Leicester , UK, 25 March.
- [38] **THOMAS, P.J.** (2010) Secrets of a Seemingly Simple System: Segregation in Particle-Laden Rimming Flow, Seminar given to School of Mechanical and Systems Engineering, University of Newcastle, Newcastle, UK, 18 March.
- [37] **THOMAS, P.J.** (2009) Silent Secrets of a Seemingly Simple System: Segregation in Particle-Laden Rimming Flow, Seminar given to BP Institute of Multiphase Flow, University of Cambridge, Cambridge, UK, 12 March.
- [36] **THOMAS, P.J.** (2009) Silent Secrets of a Seemingly Simple System: Segregation in Particle-Laden Rimming Flow, Seminar given to School of Mathematics, University of Bristol, Bristol, UK, 5 March.
- [35] **THOMAS, P.J.**, (2009) Silent Secrets of a Seemingly Simple System: Segregation in Particle-Laden Rimming Flow, Department of Mathematical Sciences, Applied Mathematics Research Centre, University of Coventry, Coventry, UK, 5<sup>th</sup> February.

- [34] **THOMAS, P.J.**, (2008) Experiments on Particle-Laden Rimming Flow, given to the Department of Mathematics, University of Limerick, Limerick, Ireland, 26<sup>th</sup> September.
- [33] **THOMAS, P.J.**, (2008) Grains, Oils, Oceans and Eddy Decay, given to the School of Mathematics, University of Birmingham, Birmingham, UK, 27<sup>th</sup> February.
- [32] **THOMAS, P.J.** 2007 From Coastal Currents to Vortex Rings: How background system rotation affects their dynamics. Seminar given to Department of Engineering Science, University of Liverpool, UK, 28 March.
- [31] **THOMAS, P.J.** 2007 From Coastal Currents to Vortex Rings: How background rotation affects their dynamics. Seminar given to School of Engineering Science, University of Southampton, UK, 14 February.
- [30] **THOMAS, P.J.** 2006 From Coastal Currents to Vortex Rings: Experiments Investigating Effects of Background Rotation on their fluid dynamics. School of Physics, Trinity College, Dublin, Ireland, 27 January.
- [29] **THOMAS, P.J.** 2005 From Coastal Currents to Vortex Rings: Effects of Background Rotation on their Fluid Dynamics. Department of Aeronautics, Imperial College, London, UK, 16 November.
- [28] **THOMAS, P.J.** 2005 From Coastal Currents to Vortex Rings: Effects of Background Rotation on their Fluid Dynamics. School of Mathematics, University of Birmingham, Birmingham, UK, 3 November.
- [27] **THOMAS, P.J.** 2005 (a) Modeling Oceanographic Coastal Currents in the Laboratory: Small-scale vs. Large-scale Experiments. (b) Investigation of the Influence of Background Rotation on the Dynamics and the Stability of Vortex Rings – Preliminary Results) Two-part seminar given to School of Mathematics, Cardiff University, Cardiff, UK, 16 March.
- [26] **THOMAS, P.J.** 2004 (a) Modeling Oceanographic Coastal Currents in the Laboratory: Small-scale vs. Large-scale Experiments. (b) Investigation of the Influence of Background Rotation on the Dynamics and the Stability of Vortex Rings – Preliminary Results) Two-part seminar given to Department of Physics, Eindhoven University of Technology, Eindhoven, The Netherlands, 10 December.
- [25] **THOMAS, P.J.** 2004 (a) Modeling Oceanographic Coastal Currents in the Laboratory: Small-scale vs. Large-scale Experiments. (b) Investigation of the Influence of Background Rotation on the Dynamics and the Stability of Vortex Rings – Preliminary Results) Two-part seminar given to Laboratoire de Mécanique de Lille, Université des Sciences et Technologies de Lille, Lille, France, 9 December.
- [24] **THOMAS, P.J.** 2004 Modeling Oceanographic Coastal Currents in the Laboratory: Small-scale vs. Large-scale Experiments. Seminar given to Department of Civil and Environmental Engineering, Imperial College, London, UK, 2 February.
- [23] **THOMAS, P.J.** 2003 Granules – Wet and Rotating. Invited lecture presented at the Granular and Particle-Laden Flows program held at the Isaac Newton Institute for Mathematical Sciences, Cambridge, UK between September to December, talk given on 16 September.
- [22] **THOMAS, P.J.** 2003 Mathematics vs. The Real World – On the delights of being an experimental philosopher. Invited guest lecture given at the LMS/EPSRC sponsored instructional course on hydrodynamic stability theory, held at Keele University, Department of Mathematics, June 22-27, talk given on 26 June.
- [21] **THOMAS, P.J.** 2002 Laboratory Simulations of Gravity-Driven Coastal Currents. Seminar given to Southampton Oceanography Centre, Southampton, UK, 7 November.
- [20] **THOMAS, P.J.** 2002 Laboratory Simulations of Gravity-Driven Coastal Currents. Seminar given to Department of Atmospheric, Oceanic and Planetary Physics, University of Oxford, Oxford, UK, 5 November.
- [19] **THOMAS, P.J.** 2002 Granular spirals under rotating fluids. Seminar given to Institut de

Recherche sur les Phénomènes Hors Equilibre, Universités d'Aix Marseille I et II, Marseille, France, 12 April.

- [18] **THOMAS, P.J.** 2001 Are sandstorms in fishtanks Mars in a nutshell? Seminar given to Department of Engineering, University of Cambridge, Cambridge, UK, 17 May.
- [17] **THOMAS, P.J.** 2001 What 's Dirt Got To Do With It? – Patterns in Suspensions, Seminar given to Department of Physics and Astronomy, University of Manchester, 14 March.
- [16] **THOMAS, P.J.** 2001 Are sandstorms in fishtanks Mars in a nutshell? Seminar given to Department of Mathematics, University of Bristol, Bristol, UK, 1 February.
- [15] **THOMAS, P.J.** 2000 Are sandstorms in fishtanks Mars in a nutshell? Seminar given to Department of Mathematics, University College London, London, UK, 4 December.
- [14] **THOMAS, P.J.** 2000 Sandstorms in fishtanks. Seminar given to Laboratoire des Ecoulements Géophysiques et Industriels (LEGI), Grenoble, France, 26 October.
- [13] **THOMAS, P.J.** 2000 Are sandstorms in fishtanks Mars in a nutshell? Seminar given to School of Engineering Science, University of Southampton, UK, 31 May.
- [12] **THOMAS, P.J.** 1999 Pattern formation in solid-liquid two-phase flows: Two experimentally observed new phenomena. Seminar given to Institut de Recherche sur les Phénomènes Hors Equilibre, Universités d'Aix Marseille I et II, Marseille, France, 9 June.
- [11] **THOMAS, P.J.** 1998 Overview of the research activities of the fluid dynamics group of the School of Engineering at Warwick. Lunchtime Seminar given to Department of Applied Mathematics and Theoretical Physics, Geophysical Fluid Dynamics Group, University of Cambridge, Cambridge, UK, ca. October.
- [10] **THOMAS, P.J.** 1998 Rotierende Kübel, rasende Krümel und Spiralen wie Sand am Meer. Seminar given to Institut für Experimentelle Physik, Otto-von-Guericke Universität, Magdeburg, Germany, 6 April.
- [9] **THOMAS, P.J.** 1997 Spiral-pattern formation of granules on the bottom of a fluid-filled tank. Seminar given to Department of Physics and Astronomy, University of Manchester, Manchester, UK, 17 December.
- [8] **THOMAS, P.J.** 1997 Spiral-pattern formation of granules on the bottom of a fluid-filled tank. Seminar given to School of Mathematical and Information Sciences, Coventry University, Coventry, UK, 27 October.
- [7] **THOMAS, P.J.** 1997 Spiral-pattern formation of granules on the bottom of a fluid-filled tank. Seminar given to Department of Physics, Technical University Eindhoven, The Netherlands, 27 March.
- [6] **THOMAS, P.J.** 1995 Spiralmusterbildung aus der Reorganisation kleiner Partikel am Boden eines flüssigkeitsgefüllten, beschleunigt rotierenden Behälters. Seminar given to Max-Planck-Institut für Strömungsforschung and Institut für Angewandte Mechanik, Georg-August-Universität, Göttingen, Germany, 25 April.
- [5] **THOMAS, P.J.** 1995 Spiral-pattern formation of granules on the bottom of a fluid-filled tank. Seminar given to Department of Engineering, University of Warwick, Coventry, UK, 27 January.
- [4] **THOMAS, P.J.** 1995 Spiral-pattern formation of granules on the bottom of a fluid-filled tank. Seminar given to Department of Physics, University of Oxford, UK, 16 January.
- [3] **THOMAS, P.J.** 1994 Spiral-pattern formation of granules on the bottom of a fluid-filled tank". Seminar given to Hermann-Föttinger-Institut für Thermo- und Fluidodynamik, Technische Universität Berlin, Berlin, Germany, 20 May.
- [2] **THOMAS, P.J.** 1994 Spiral-pattern formation of granules on the bottom of a fluid-filled tank. Seminar given to Department of Applied Mathematics and Theoretical Physics, University of

Cambridge, Cambridge, UK, 28 October.

- [1] **THOMAS, P.J.** 1994 Spiral-pattern formation of granules on the bottom of a fluid-filled tank. Seminar given to Zentrum für Angewandte Raumfahrttechnologie und Mikrogravitation (ZARM), University of Bremen, Germany, 19 May.

***E) Internal Research Seminars since Commencement of Position at Warwick in August 1995***

- [9] **THOMAS, P.J.** (2017) Sharks, Aeroplanes and the Rotating-Disk Boundary Layer, Seminar given to Fluid Dynamics Research Centre, School of Engineering, University of Warwick, Coventry, 21 June.
- THOMAS, P.J.** (2015) Particle-Laden Flows in Rotating Drums: The Silent Secrets, Seminar give to MIR@W, Understanding Small-Scale Flows Workshop, Dept. of Mathematics, 8 June 2015
- [8] **THOMAS, P.J.** (2009) Silent Secrets of a Seemingly Simple System: Segregation in Particle-Laden Rimming Flow, Seminar given to Fluid Dynamics Research Centre, School of Engineering, University of Warwick, Coventry, 4 March.
- [7] **THOMAS, P.J.** (2008) Pattern Formation from Particle Segregation in Particle-Laden Flow, invited talk to be given at the workshop on “Pattern formation in particle systems” held at the Department of Mathematics, University of Warwick, UK, 25<sup>th</sup> February.
- [6] **THOMAS, P.J.** 2005 Vortex Rings : Effects of Background Rotation on their Dynamics, Seminar given to Fluid Dynamics Research Centre, School of Engineering, University of Warwick, Coventry, UK, 5 October.
- [5] **THOMAS, P.J.** 2004 Modelling Oceanographic Coastal Currents in the Laboratory: Small-scale vs. large-scale experiments, Seminar given to Fluid Dynamics Research Centre, School of Engineering, University of Warwick, Coventry, UK, 21 April.
- [4] **THOMAS, P.J.** 2002 Sandstorms in Fishtanks : Granular Spiral Patterns Under Rotating Fluids, Department of Physics, University of Warwick, Coventry, UK, 27 October.
- [3] **THOMAS, P.J.** 1999 Something old, something new, something borrowed and something blue – Some things that granules do. Seminar given to Fluid Dynamics Research Centre, School of Engineering, University of Warwick, Coventry, UK, 27 October.
- [2] **THOMAS, P.J.** 1997 A layman's introduction to 2D turbulence. Talk given at MIR@W, 2D Turbulence Day held at Mathematics Department, University of Warwick, Coventry, UK, 12 November.
- [1] **THOMAS, P.J.** 1996 Spiral-pattern formation of granules on the bottom of a fluid-filled tank. Seminar given to Department of Mathematics, University of Warwick, Coventry, UK, 21 October.