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Ali, Jafar, Fieldhouse, John D., Talbot, Chris J. and Mishra, Rakesh

Thermal discharge of warm water into cooler stagnant water

### Original Citation

Ali, Jafar, Fieldhouse, John D., Talbot, Chris J. and Mishra, Rakesh (2009) Thermal discharge of warm water into cooler stagnant water. In: *What Where When: Multi-dimensional Advances for Industrial Process Monitoring*. Proceedings. University of Leeds, Leeds, pp. 227-238.

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UNIVERSITY OF LEEDS

# What Where When

## Multi-dimensional Advances for Industrial Process Monitoring

**Tuesday 23 & Wednesday 24 June 2009**

PROCEEDINGS



The focus of the event is to explore how we can employ multi-dimensional sensing technologies to enhance process-analysis and control across a broad range of industrial sectors.

### Coverage

The Symposium will encompass a wide range of novel approaches that provide new insights through increased spatial, temporal and material and component estimation dimensions; for example, including tomographic and spectrographic methods and data fusion between multiple sensor modes.

### Attendees

The Symposium will be of interest to a broad range of scientists, engineers, technologists and industrialists who are keen to explore new approaches to the monitoring and control of industrial processes with a view to achieving benefits of increased productivity, product quality, efficiency and reduced wastage and emissions.

### International Advisory Board

Dr G Bolton, Industrial Tomography Systems, UK

Professor X Cai, University of Shanghai, China

Dr Uwe Hampel, Research Centre Dresden-Rossendorf, Germany

Professor Y Hassin, Texas A&M University, USA

Professor D Littlejohn, University of Strathclyde, UK

Professor J Morris, University of Newcastle, UK

Professor A Peyton, University of Manchester, UK

Dr D Rhodes, NexiaSolutions, UK

Dr D Scott, DuPont, USA

Dr M Takei, Nihon University, Japan

Professor Chi-Hwa Wang, The National University of Singapore

Professor J Wang, Shanghai Jiao Tong University, China

Professor X Wang, University of Leeds, UK

Dr C Xie, Schlumberger Cambridge Research, UK

### Invited Speakers

Professor Yassin A Hassan, Texas A&M University, USA

***Multiscale Flow Structure Measurements for Nuclear System Components Using Particle Image Velocimetry***

Dr David Scott, DuPont, USA

***The "Thousand Words" Problem: Summarizing Multi-Dimensional Data***

Professor Hugh Stitt, Johnson Matthey, UK

***Industrial Process Tomography - An Industrial User's View***

Professor Xue Z Wang, University of Leeds, UK

***Particle Shape and Size Control: Integrating Measurement, Data Mining and Modelling***

### Organising Committee

Chair: Professor Kevin Roberts - University of Leeds

Co-chair: Professor Antony Peyton - University of Manchester

Members: Professors Mojtaba Ghadiri, Brian Hoyle, Mi Wang, Richard Williams - University of Leeds

Secretary: Dr Robert Hammond - University of Leeds

### Venue

University of Leeds, Leeds, UK

[www.engineering.leeds.ac.uk/cpd/w3mdm09](http://www.engineering.leeds.ac.uk/cpd/w3mdm09)



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## **Programme Index**

### **Session One: Advances in Tomography and Ultrasound I**

<b>The “Thousand Words” Problem: Summarizing Multi-Dimensional Data</b> David M. Scott	1
<b>Process tomography with electron beams</b> U Hampel, F Fischer	13
<b>Scanning acoustic microscopy for mapping the microstructure of soft materials</b> N Parker, M Povey	23
<b>Development of multi-wavelength laser absorption tomography system for monitoring and optimisation of chemical vapour deposition reactors</b> V L Kasyutich, P A Martin	31
<b>Multi-dimensional Visualization of Multiphase Flow using Electric Tomography and Stereoscopic-PIV</b> M Honda, M Takei, T Zhao, J Choi, D Doh	41
<b>Multi-site &amp; Multi-sensing industrial process monitoring devoted to valorization strategy for various origins used oils</b> A Kubiak, T G Mathia, K J Kubiak, S Bouvier	53
<b>Modelling and Measurements of Film Characteristics and Gas Core of Annular Flows</b> Q S Al-Yarubi, G. P. Lucas	62
<b>An X-ray Tomography Study of the Effect of Scale-up of a High Shear Granulator on Granule Structure</b> N Rahmanian, M Ghadiri, X Jia	72
<b>An Impedance Cross Correlation (ICC) device for measuring solids velocity and volume fraction profiles in solids-water flows</b> S Al-Hinai, G P Lucas	85
<b>Wire-mesh sensors for fast visualization of multiphase flows</b> M J da Silva, S Thiele, E Schleicher, U Hampel	98
<b>Towards Nano-Particle Resonance Imaging for Use in Breast Cancer Imaging</b> P Guan, Mi Wang, H I Schlaberg, J I Khan, V Speirs	109
<b>Modelling and Compensating for Acoustic Reverberation Effects in Ultrasonic Tomography Systems</b> S Ellwood, S Freear	120
<b>Impact of Leakage Effects in Electrical Capacitance Tomography due to Short Electrode Length</b> H Zangl, M Neumayer	129

<b>Spatial Resolution Analysis for Real Time Applications in Electrical Tomography</b> M Neumayer, G Steiner, D Watzenig, H Zangl	139
<b>Spectro-tomography for <i>What, Where</i> and <i>When</i> Process Estimation</b> B S Hoyle, M Nahvi	148
<b>A Novel Tomographic Sensing System for High Conductivity Multiphase Flow Measurement</b> J Jia, Mi Wang, H I Schlaberg	161
<b>Using Principle Component Analysis in Electrical Impedance Tomography</b> K Ismail, M Wang, B Hoyle	171
<b>Channel Coding Study for Fast-ultrasonic-tomography</b> F Ayu, S Freear	184

**Session Two: Advances in Multidimensional Sensing**

<b>Particle Shape and Size Control: Integrating Measurement, Data Mining and Modelling</b> Professor Xue Z. Wang	
<b>Multiscale Flow Structure Measurements for Nuclear System Components using Particle Image Velocimetry</b> Professor Yassin A. Hassan	
<b>Modelling and measurement of the gas flow rate in vertical annular gas-water flow using a ‘Conductance multiphase Venturi</b> A H A M Hasan, G P Lucas	185
<b>Real-time On-line Monitoring of Pulverized Coal in Power Plants</b> X Cai, J Li, X Ouyang, Z Jia, X Fan	197
<b>Development of an ultrasound and electrical tomography platform</b> C Qiu, K Primrose, D McCormack, M Townley, R Tweedie, F Podd	205
<b>Three-Dimensional Monitoring of Combustion Flames Using Digital Imaging and Tomographic Reconstruction Techniques</b> G Gilabert, G Lu, Y Yan	212
<b>Multivariate Statistical Control of Emulsion and Nanoparticle Slurry Processes Based on Process Tomography, Dynamic Light Scattering, and Acoustic Sensor Data</b> R F Li, L Liu, X Z Wang, R Tweedie, K Primrose, J Corbett; F McNeil-Watson	219
<b>Obtaining Multidimensional Particle Size Distributions Using Stereoscopic Imaging</b> Michel Kempkes, Thomas Vetter, Marco Mazzotti	226

<b>Thermal discharge of warm water into cooler stagnant water</b> J Ali, J Fieldhouse, C Talbot and R Mishra	227
<b>Using the four-sensor probe to measuring the bubble velocity vector in bubble water two phase flow</b> X Zhao, G P Lucas; T Leeungculsatien	239
<b>Characterisation of Crystallisation Processes with Electrical Impedance Spectroscopy</b> Y Zhao, M Wang, R B Hammond	251
<b>Implementation of a Fibre Evanescent Wave Spectroscopy (FEWS) Sensor Using Getese Chalcogenide Fibres for Chemical Sensing</b> Xin Jiang, Shaoxiong Shen, Animesh Jha	260
<b>Status Quo of Spectroscopic Techniques in Chemical Engineering Process Monitoring</b> V Ramachandran, M Wang	261
<b>Laboratory and field testing of a new magnetic resonance water cut metering device</b> A Kantzas, S Kruychkov, C MacLeod	274
<b>Measurement of Multiple Properties of Solid and Liquid Phases in Crystallisation Processes Using NIR: Calibration Model Development Using Genetic Algorithm and Support Vector Machine</b> C Y Ma, X Z Wang	281
<b>Morphological Population Balance Models for the Dynamic Evolution of Particle Shape and Size Distribution in Protein Crystallisation</b> J J Liu, C Y Ma, X Z Wang, Y D Hu	287
<b>Study of the Test Method for the Refrigerant Vapor State at the Outlet of the Evaporator</b> L Jian-hua	298
<b>Wireless Sensor Networks for Industrial Processes</b> Trevor York	307

### **Session Three: Advances in Tomography and Ultrasound II**

<b>Industrial Process Tomography – An Industrial User’s View</b> Professor Hugh Stitt	
<b>Combination of magnetic resonance and x-ray tomography for bitumen reservoir characterization</b> J Bryan, J Wang, S Kruychkov, A Kantzas	308
<b>Estimation of non-stationary velocity fields using Electrical Impedance Tomography</b> A Lipponen, A Seppänen, J P Kaipio	323

<b>Use of MCNP Simulation for the Tomographic Inspection of Airport Luggage Using Neutron and Gamma Ray Methods</b>	341
G Zhang, R G van Silfhout, A J Peyton, M J Joyce, M D Aspinall, A J Boston, P J Nolan, N P Hawkes	
<b>The Physics of nano-Particle Resonance Imaging</b>	354
J I Khan, H I Schlberg, M Wang	
<b>Flow Metering with Fast Electrical Impedance Tomography and an Electromagnetic Flowmeter in a Vertical Air-Water Flow</b>	363
H Li, M Wang, H I Schlberg	
<b>A novel method of determining mass flow rate and flow features in vertical slurry pipeline transport</b>	375
B Munir, M Wang, U Zafar	
<b>Ultrasonic Array Research Platform (U-ARP)</b>	388
Ben Raiton, Steven Freear	
<b>Measurement methods of Ultrasound Vibration Potential signals for imaging applications</b>	389
H I Schlberg, M Wang, P Guan, J I Khan	
<b>Pseudo-inverse Flow Pattern Reconstruction for ECT</b>	402
S Liu, Q Chen, Q Qiu, J Lei, Z Han, J Li, J Li	
<b>Experimental Validation of Over-zero Switching Method</b>	408
Y Ma, Y Lai, M Wang, J Jia	
<b>Spectral Induced Polarization and Imaging of Water Distribution during Desaturation of Sand</b>	417
F H Haegel, O Esser, K Breede, J A Huisman, H Vereecken, E Zimmermann, W Glaas, J Berwix	
<b>Image reconstruction in Electrostatic Tomography using a prior knowledge from ECT</b>	431
B Zhou, S Wang, C Xu, Y Wu	
<b>Multi- Sensing Strategy to Enhance Process in Terms of Reliability and Performances – Case of Tribological Focus on New Compressors Generation</b>	441
T.G. Mathia, K Kubiak, V. Génissieux	
<b>Construction methods of 4D mathematical models 3D bodies on a basis interlineation, interflatation, blending approximation and wavelets</b>	443
O M Lytvyn, Y I Pershina, O P Nechuyviter, O O Litvin, S I Kulyk	



## Index of Papers

01	<b>The “Thousand Words” Problem: Summarizing Multi-Dimensional Data</b> David M. Scott	1
02	<b>Modelling and Measurements of Film Characteristics and Gas Core of Annular Flows</b> Q S Al-Yarubi, G. P. Lucas	62
03	<b>An X-ray Tomography Study of the Effect of Scale-up of a High Shear Granulator on Granule Structure</b> N Rahmanian, M Ghadiri, X Jia	72
04	<b>Obtaining Multidimensional Particle Size Distributions Using Stereoscopic Imaging</b> Michel Kempkes, Thomas Vetter, Marco Mazzotti	226
05	<b>Process tomography with electron beams</b> U Hampel, F Fischer	13
06	<b>Multi-dimensional Visualization of Multiphase Flow using Electric Tomography and Stereoscopic-PIV</b> M Honda, M Takei, T Zhao, J Choi, D Doh	41
07	<b>Thermal discharge of warm water into cooler stagnant water</b> J Ali, J Fieldhouse, C Talbot and R Mishra	227
08	<b>An Impedance Cross Correlation (ICC) device for measuring solids velocity and volume fraction profiles in solids-water flows</b> S Al-Hinai, G P Lucas	85
09	<b>Using the four-sensor probe to measuring the bubble velocity vector in bubble water two phase flow</b> X Zhao, G P Lucas; T Leeungculsatien	239
10	<b>Modelling and measurement of the gas flow rate in vertical annular gas-water flow using a ‘Conductance multiphase Venturi</b> A H A M Hasan, G P Lucas	185
11	<b>Wire-mesh sensors for fast visualization of multiphase flows</b> M J da Silva, S Thiele, E Schleicher, U Hampel	98
12	<b>Towards Nano-Particle Resonance Imaging for Use in Breast Cancer Imaging</b> P Guan, Mi Wang, H I Schlaberg, J I Khan, V Speirs	109
13	<b>Modelling and Compensating for Acoustic Reverberation Effects in Ultrasonic Tomography Systems</b> S Ellwood, S Freear	120

14	<b>Characterisation of Crystallisation Processes with Electrical Impedance Spectroscopy</b> Y Zhao, M Wang, R B Hammond	251
16	<b>Impact of Leakage Effects in Electrical Capacitance Tomography due to Short Electrode Length</b> H Zangl, M Neumayer	129
17	<b>Spatial Resolution Analysis for Real Time Applications in Electrical Tomography</b> M Neumayer, G Steiner, D Watzenig, H Zangl	139
18	<b>Spectro-tomography for <i>What, Where</i> and <i>When</i> Process Estimation</b> B S Hoyle, M Nahvi	148
19	<b>The Physics of nano-Particle Resonance Imaging</b> J I Khan, H I Schlaberg, M Wang	354
20	<b>A Novel Tomographic Sensing System for High Conductivity Multiphase Flow Measurement</b> J Jia, Mi Wang, H I Schlaberg	161
21	<b>Scanning acoustic microscopy for mapping the microstructure of soft materials</b> N Parker, M Povey	23
22	<b>Development of multi-wavelength laser absorption tomography system for monitoring and optimisation of chemical vapour deposition reactors</b> V L Kasyutich, P A Martin	31
23	<b>Implementation of a Fibre Evanescent Wave Spectroscopy (FEWS) Sensor Using Getese Chalcogenide Fibres for Chemical Sensing</b> Xin Jiang, Shaoxiong Shen, Animesh Jha	260
24	<b>Status Quo of Spectroscopic Techniques in Chemical Engineering Process Monitoring</b> V Ramachandran, M Wang	261
25	<b>Using Principle Component Analysis in Electrical Impedance Tomography</b> K Ismail, M Wang, B Hoyle	171
26	<b>Channel Coding Study for Fast-ultrasonic-tomography</b> F Ayu, S Freear	184
27	<b>Flow Metering with Fast Electrical Impedance Tomography and an Electromagnetic Flowmeter in a Vertical Air-Water Flow</b> H Li, M Wang, H I Schlaberg	363
28	<b>A novel method of determining mass flow rate and flow features in vertical slurry pipeline transport</b> B Munir, M Wang, U Zafar	375

29	<b>Laboratory and field testing of a new magnetic resonance water cut metering device</b> A Kantzas, S Kruychkov, C MacLeod	274
30	<b>Combination of magnetic resonance and x-ray tomography for bitumen reservoir characterization</b> J Bryan, J Wang, S Kruychkov, A Kantzas	308
31	<b>Ultrasonic Array Research Platform (U-ARP)</b> Ben Raiton, Steven Freear	388
32	<b>Measurement methods of Ultrasound Vibration Potential signals for imaging applications</b> H I Schlaberg, M Wang, P Guan, J I Khan	389
33	<b>Three-Dimensional Monitoring of Combustion Flames Using Digital Imaging and Tomographic Reconstruction Techniques</b> G Gilabert, G Lu, Y Yan	212
34	<b>Estimation of non-stationary velocity fields using Electrical Impedance Tomography</b> A Lipponen, A Seppänen, J P Kaipio	323
35	<b>Pseudo-inverse Flow Pattern Reconstruction for ECT</b> S Liu, Q Chen, Q Qiu, J Lei, Z Han, J Li, J Li	402
36	<b>Measurement of Multiple Properties of Solid and Liquid Phases in Crystallisation Processes Using NIR: Calibration Model Development Using Genetic Algorithm and Support Vector Machine</b> C Y Ma, X Z Wang	281
37	<b>Multivariate Statistical Control of Emulsion and Nanoparticle Slurry Processes Based on Process Tomography, Dynamic Light Scattering, and Acoustic Sensor Data</b> R F Li, L Liu, X Z Wang, R Tweedie, K Primrose, J Corbett; F McNeil-Watson	219
38	<b>Morphological Population Balance Models for the Dynamic Evolution of Particle Shape and Size Distribution in Protein Crystallisation</b> J J Liu, C Y Ma, X Z Wang, Y D Hu	287
39	<b>Real-time On-line Monitoring of Pulverized Coal in Power Plants</b> X Cai, J Li, X Ouyang, Z Jia, X Fan	197
41	<b>Study of the Test Method for the Refrigerant Vapor State at the Outlet of the Evaporator</b> L Jian-hua	298
42	<b>Experimental Validation of Over-zero Switching Method</b> Y Ma, Y Lai, M Wang, J Jia	408
43	<b>Construction methods of 4D mathematical models 3D bodies on a basis interlineation, interflatation, blending approximation and wavelets</b> O M Lytvyn, Y I Pershina, O P Nechuyviter, O O Litvin, S I Kulyk	443

44	<b>Spectral Induced Polarization and Imaging of Water Distribution during Desaturation of Sand</b> F H Haegel, O Esser, K Breede, J A Huisman, H Vereecken, E Zimmermann, W Glaas, J Berwix	417
45	<b>Image reconstruction in Electrostatic Tomography using a prior knowledge from ECT</b> B Zhou, S Wang, C Xu, Y Wu	431
46	<b>Multi- Sensing Strategy to Enhance Process in Terms of Reliability and Performances – Case of Tribological Focus on New Compressors Generation</b> T.G. Mathia, K Kubiak, V. Génissieux	441
47	<b>Wireless Sensor Networks for Industrial Processes</b> Trevor York	307
48	<b>Multi-site &amp; Multi-sensing industrial process monitoring devoted to valorization strategy for various origins used oils</b> A Kubiak, T G Mathia, K J Kubiak, S Bouvier	53
49	<b>Development of an ultrasound and electrical tomography platform</b> C Qiu, K Primrose, D McCormack, M Townley, R Tweedie, F Podd	205
50	<b>Use of MCNP Simulation for the Tomographic Inspection of Airport Luggage Using Neutron and Gamma Ray Methods</b> G Zhang, R G van Silfhout, A J Peyton, M J Joyce, M D Aspinall, A J Boston, P J Nolan, N P Hawkes	341

## Index of Authors

Al-Hinai, S	85	Kubiak, K J	53
Al-Yarubi, Q S	62	Kylik, S I	443
Ali, J	227	Lai, Y	408
Aspinall, M D	341	Leeungulsatien, T	239
Ayu, F	184	Lei, J	402
Berwix, J	417	Li, H	161, 363
Boston, A J	341	Li, J	197
Bouvier, S	53	Li, R F	219
Breede, K	417	Lipponen, A	323
Bryan, J	308	Litvin, O O	443
Cai, X	197	Liu, J J	287
Cheen, Q S	402	Liu, L	219
Choi, J	41	Liu, S	402
Corbett, J	219	Lu, G	212
da Silva, M J	98	Lucas, G P	62, 85, 239, 185
Ding, Y	72	Lytvyn, O M	443
Doh, D	41	Ma, C Y	281, 287
Ellwood, S	120	Ma, Y	408
Esser, O	417	MacLeod, C	274
Fan, X	197	Martin, P A	31
Fieldhouse, J	227	Mathia, T G	441, 53
Fischer, F	13	Mazzotti, M	226
Freear, S	120	McCormack, D	205
Genissieux, V	53	McNeil-Watson, F	219
Ghadiri, M	72	Mihalkin, V V	443
Gilabert, G	212	Mishra, R	227
Glaas, W	417	Munir, B	375
Guan, P	109, 354, 389	Nahvi, M	148
Haegal, F H	417	Nechuyviter, O P	443
Hammond, R B	251	Neumayer, M	129, 139
Hampel, U	13, 98	Nolan, P J	341
Hasan, A H A M	185	Ouyang, X	197
Hassan, Y A	Invited 3	Parker, N	23
Hawkes, N P	341	Pershina, Y I	443
Honda, M	41	Peyton, A J	341
Hoyle, B S	148, 171	Podd, F	205
Hu, Y D	287	Povey, M	23
Huisman, J A	417	Primrose, K	219, 205
Ismail, K	171	Qiu, Q	205
Jha, A	260	Rahmanian, N	72
Jia, J	161, 408	Raiton, B	388
Jia, X	72	Ramachandran, V	261
Jia, Z	197	Schlaberg, H I	109, 354, 161, 363, 389
Jiang, X	260	Schleicher, E	98
Jian-hua, L	298	Scott, D M	Invited 1
Joyce, M J	341	Seppanen, A	323
Kaipo, J P	323	Shen, S	260
Kantzas, A	274, 308	Speirs, V	109
Kasyutich, V L	31	Steiner, G	139
Kempkes, M	226	Stitt, H	Invited 4
Khan, J I	109, 354, 389	Takei, M	41
Kruchkov, S	274, 308	Talbot, C	227
Kubiak, A	53		

Thiele, S	98
Townley, M	205
Tweedie, R	219, 205
Van Silfhout, R G	341
Vereecken, H	417
Vetter, T	226
Wang, J	308
Wang, M	109, 251, 354, 161, 261, 171, 363, 375, 389, 408
Wang, S	431
Wang, X.Z	Invited 2, 281, 219, 287
Watzenig, D	139
Wu, Y	431
Xu, C	431
Yan, Y	212
York, D	72
York, T	307
Zafar, U	375
Zangl, H	129, 139
Zhang, G	341
Zhao, T	41
Zhao, X	239
Zhao, Y	251
Zhou, B	431
Zimmermann, E	417