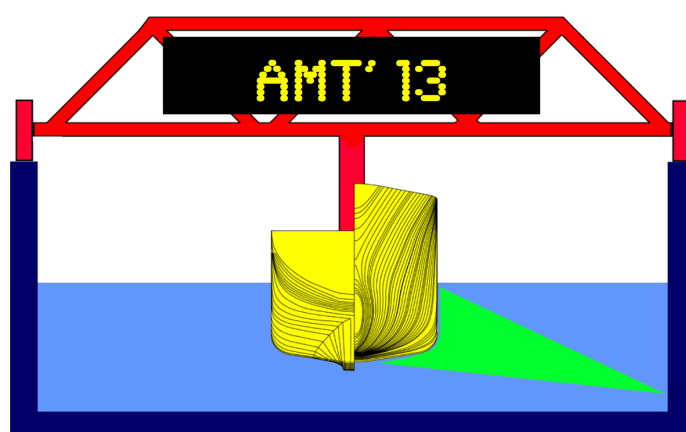


The 3rd International Conference on Advanced Model Measurement Technology for EU Maritime Industry (AMT'13)



17th – 18th September 2013, Gdansk, Poland.

AMT'13 is organized by the Hydro-Testing Forum (HTF) members and will be jointly hosted by Newcastle University & CTO S.A.

Final Programme

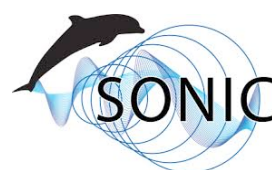
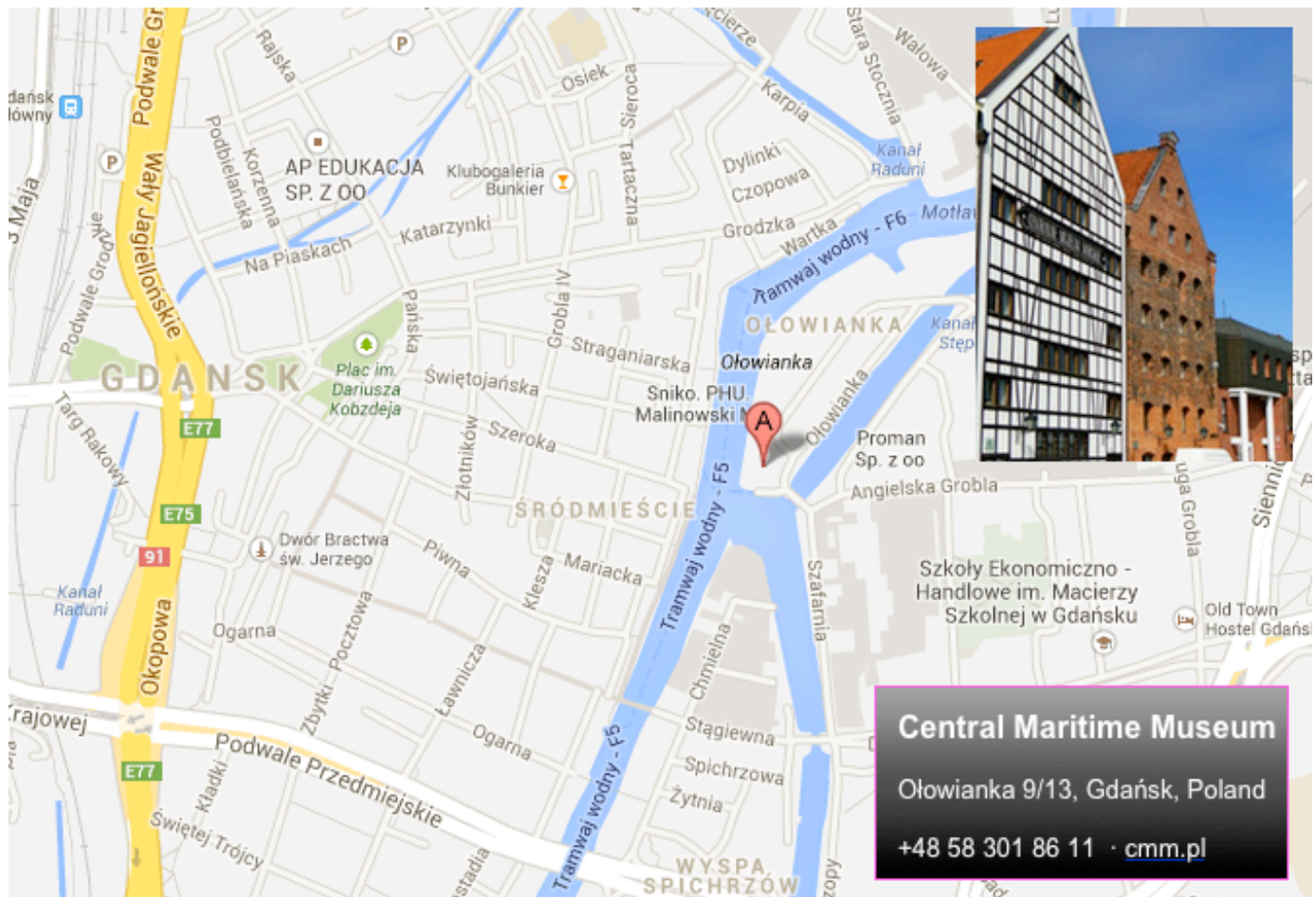


Go to the conference website for more information about the conference including on-line registration, fees, accommodation travel information and much more!

<http://conferences.ncl.ac.uk/amt13>

Conference Venue

The 3rd International Conference on Advanced Model Measurement Technology For the EU Maritime Industry will be held from Tuesday 17th to Wednesday 18th September 2013 at Central Maritime Museum of Gdansk, Poland. Session A of the conference is in "Spichlerze" (The Granaries) at the Museum (9-13 Ołowianka street) and Session B is located on the historical vessel "Soldek" (next to the museum). The dinner will be held at the restaurant "Cala Naprzod" on the 4th floor of Maritime Culture Centre (21/25 Tokarska street). of the Museum.



Conference Programme

Conference Programme

Day 1		17th September
8:00-9:00	Registry and Coffee	
9:00-9:30	Opening Ceremony	
9:30-10:15	Plenary Session - Hydroacoustic noise measurements Prof E. Kozaczka Gdansk University of Technology & Polish Naval Academy	
10:15-11:00	Refreshments	
Noise Measurements - 1		Session A - Spichlerze Room
11:00-11:25	Marine propeller noise measurements techniques in hydroacoustics tunnel L. Briançon, P. Fournier & D. Frechou DGA Hydrodynamics, France	
11:25-11:50	Measurement of propeller cavitation noise in the MOERI large cavitation tunnel H. Seol, C. Park, Y. Park & G. Kim MOERI / KIOST, Korea	
11:50-12:15	Underwater radiated noise measurements with a silent towing carriage in the Depressurized Wave Basin J. Bosschers, F.H. Lafeber, A. Bouvy, J. de Boer, R. Bosman & A. Buovy MARIN, The Netherlands	
12:15-14:00	Lunch	
EU-FP7 Projects AQUO & SONIC		Session A - Spichlerze Room
14:00-14:25	AQUO Project “Achieve QUIeter Oceans by shipping noise footprint reduction” C. Audoly ¹ , C. Rousset ¹ , T. Folegot ² , M. Andre ³ , L. Benedetti ⁴ , E. Baudin ⁵ & R. Salinas ⁶ ¹ DCNS Research, France, ² Quiet-Oceans, France, ³ UPC, Spain, ⁴ CESA, Belgium, ⁵ Bureau Veritas, France, ⁶ TSI, Spain	
14:25-14:50	EU-FP7 SONIC (Suppression Of underwater Noise Induced Cavitation) project H. Prins et al MARIN, The Netherlands	
14:50-15:15	Joint discussion on the AQUO and SONIC projects	
15:15-15:45	Refreshments	

Conference Programme

Day 1		17th September 2013
8:00-9:00	Registry and Coffee	
9:00-9:30	Opening Ceremony	
9:30-10:15	Plenary Session - Hydroacoustic noise measurements Prof E. Kozaczka Gdansk University of Technology & Polish Naval Academy	
10:15-11:00	Refreshments	
PIV Applications - 1		Session B - Onboard 'Soldek'
11:00-11:25	PIV measurements of waves and turbulence in stratified horizontal two-phase pipe flow R. Delfos ¹ , M. Birvalski ¹ , M.J. Tummers ¹ & R. Henkes ^{1,2} ¹ Delft University of Technology, The Netherlands, ² Shell Projects & Technology, The Netherlands	
11:25-11:50	PIV measurements of stepped cylinder wakes J. Visscher ¹ , I. Teutsch ² & C. Muthanna ¹ ¹ MARINTEK, Norway, ² Brunvoll AS, Norway	
11:50-12:15	Experimental investigation of the flow around a piggyback cylinder configuration using PIV P. Levold, C. Muthanna & J. H. Visscher MARINTEK, Norway	
12:15-14:00	Lunch	
PIV Applications - 2 & Optical Measurements - 1		Session B - Onboard 'Soldek'
14:00-14:25	Applications of particle image velocimetry to complex study of propeller flows T. Bugalski ¹ & A. Reda ² ¹ CTO, Poland & ² Institute of Hydro-engineering PAS (IBW PAN), Poland	
14:25-14:50	FPSO's roll damping vortices correlation via PIV visualization in fixed axis decaying and forced oscillation tests A.C. Fernandes ⁽¹⁾ , A.R.W. Soares ⁽¹⁾ & A.C. Oliveira ⁽²⁾ ⁽¹⁾ LOC-COPPE/UFRJ, Rio de Janeiro, Brazil ⁽²⁾ PETROBRAS, Rio de Janeiro, Brazil	
14:50-15:15	iGPS - Large volume optical measurement system for towing tank L. Wens C Tech Metrology, Belgium	
15:15-15:45	Refreshments	

Conference Programme

Noise Measurements - 2		Session A - Spichlerze Room
15:45-16:10	A multipurpose marine science and technology research vessel for full-scale observations and measurements M. Atlar, B. Aktas, R. Sampson, I.M. Viola, K.-C. Seo, S. Turkmen & P. Fitzsimmons Newcastle University, UK	
16:10-16:35	Identification and evaluation of the uncertainties in the current measurement standards, within the framework of AQUO project ¹ R.S. Mullor, ¹ A.M. Rodriguez, ¹ P.B. Palomo, ¹ C. Rousset, ² C. Audoly & ³ E. Baudin ¹ TSI, Spain, ² DCNS, France, ³ Bureau Veritas, France	
16:35-17:00	Noise measurements for studying propagation of harbour noise to residential areas close to ports P. Zoet, P. Kellett, S. Turkmen & O. Turan University of Strathclyde, UK	
19:00 - 22:00	Conference Dinner at the restaurant "Cala Naprzod" on the 4th floor of Maritime Culture Centre (21/25 Tokarska street).	
Day 2		18th September
8:00-9:00	Registry and Coffee	
Coating Performance Measurements		Session A - Spichlerze Room
9:00-9:25	Flat plate model test for the evaluation of skin friction in the cavitation tunnel B-G. Paik ¹ , K-Y. Kim ¹ , J-H Kim ¹ , S-R. Cho ¹ , J-W. Ahn ¹ , S-R. Cho ² , K-R. Kim ² & Y-U. Chung ² ¹ MOERI KIOST, Korea. , ² Daewoo Shipbuilding & Marine Engineering Co. Ltd.	
9:25-9:50	A multi-purpose flume for evaluation of hull coatings G. Politis ¹ , M. Atlar ¹ & B. Kidd ² ¹ Newcastle University, UK, ² International Paint, Felling, UK	
9:50-10:15	Experimental procedures toward the performance assessment for low frictional marine paints I. Lee & H-H. Chun Pusan National University, Korea	
10:15-11:00	Refreshments	
Friction Drag Reduction Technologies		Session A - Spichlerze Room
11:00-11:25	Flat plate drag reduction by air cavities on a ship model O. Zverkhovskiy ¹ , R. Delfos ¹ , J. Westerweel ¹ & T. van Terwisga ^{1,2} ¹ Delft University of Technology, the Netherlands, ² MARIN, The Netherlands	
11:25-11:50	Local flow measurements with multiphase flows S. Gokcay & M. Insel Istanbul Technical University, Turkey	

Conference Programme

Optical Measurements - 2 & Experimental Uncertainty		Session B - Onboard 'Soldek'
15:45-16:10	Optical measurements of free surface for the analysis of ship waves in towing tank G. Gomit ¹ , D. Calluau ¹ , L. Chatellier ¹ , L. David ¹ & D. Fréchou ² ¹ Université de Poitiers, France, ² DGA Hydrodynamics, France	
16:10-16:35	Uncertainty analysis of finite length measurement signals J. Brouwer, J. Tukker & M. van Rijsbergen MARIN, The Netherlands	
16:35-17:00	Propagation of experimental uncertainty from force measurements into manoeuvring derivatives M.D. Woodward Newcastle University, UK	
19:00 - 22:00	Conference Dinner at the restaurant "Cala Naprzod" on the 4th floor of Maritime Culture Centre (21/25 Tokarska street).	

Day 2 18th of September 2013

8:00-9:00	Registry and Coffee
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Sensors - 1 & Control Technologies	Session B - Onboard 'Soldek'
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9:00-9:25	On strobe light control and dynamic calibration J. Reemts The Hamburg Ship Model Basin (HSVA), Hamburg, Germany	
9:25-9:50	Determining the dynamic quality of signal conditioners E. van de Bunt, A. Bouvy & F. Bloemhof MARIN, The Netherlands	
9:50-10:15	Design of tidal power monitoring and control system based on CAN bus and LabVIEW Y. Li, D. Wang & X. Gong Harbin Institute of Technology at Weihai, China	
10:15-11:00	Refreshments	

Sensors - 2 & Smart Free Running Tests	Session B - Onboard 'Soldek'
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11:00-11:25	Dynamically verifying the calibration of pressure transducers A. Bouvy MARIN, The Netherlands	
11:25-11:50	Experimental study of the asymmetrical propeller loads occurring in unmanned self-propelled free running surface model tests S. Mauro CNR-INSEAN, Rome, Italy	

Conference Programme

11:50-12.15	Measurement and impact of surface topology and hydrodynamic drag of fouling control coatings P. Stenson, B. Kidd & A.A. Finnie International Paint, U.K.
12:15-14:00	Lunch
Pod Propulsor Measurements Session A - Spichlerze Room	
14:00-14:25	Open water performance characteristics of a pod propulsor – the benchmark test R. Głodowski ¹ , J. Richards ² , K. Koushan ³ , S.A. Alterskjaer ³ , M. Atlar ⁴ , & I. Saisto ⁵ ¹ CTO S.A., Poland ² The Hamburg Ship Model Basin (HSVA), Germany, ³ MARINTEK, Norway, ⁴ Newcastle University, UK, ⁵ VTT, Finland
14:25-14:50	Numerical predictions of open water performance characteristics of a podded propulsors - extended studies R. Głodowski ¹ , I. Saisto ² & S. Steen ³ ¹ CTO S.A., Poland, ² VTT, Finland, ³ NTNU, Norway
14:50-15:15	Prediction of the effect of cavitation on propeller ice interaction Rod Sampson ¹ & Mehmet Atlar ² ¹ King Propulsion, Leesburg VA, USA, ² Newcastle University, UK
15:15-15:45	Refreshments
Cavitation Erosion Session A - Spichlerze Room	
15:45-16:10	Propeller tip vortex cavitation observation technique by using partial blade Model H. Lee, S-H. Lee, S-Y. Park, G-H. Choi & B-J. Chang Hyundai Heavy Industry, Korea, Maritime Research Institute, Korea
16:10-16:30	Closing Ceremony

Conference Programme

11:50-12.15	Free running model technology for dynamic positioning in an ice model basin A. Haase & P. Jochmann The Hamburg Ship Model Basin (HSVA), Hamburg, Germany
12:15-14:00	Lunch
Miscellaneous (smart) tank testing Session B	
14:00-14:25	Automatic waterline registration of a ship model in waves M. T. Ruiz ¹ , S. Geerts ¹ , G. Delefortrie ² & M. Vantorre ¹ ¹ Ghent University, Belgium, ² Flanders Hydraulics Research, Belgium
14:25-14:50	The influence of a keel bulb on the hydrodynamic performance of a sailing yacht model K.N. Sfakianaki, D.E. Liarokapis, G.P. Trahanas & G.D. Tzabiras National Technical University of Athens, Greece
14:50-15:15	A quasi-steady method for efficiently conducting open water model tests F.H. Lefeber, J. Brouwer & J. Dang MARIN, The Netherlands
15:15-15:45	Refreshments
Session B	
15:45-16:10	Free
16:10-16:30	Closing Ceremony

DAY 1	Tuesday 17th September	
8.00 - 9.00	Registration & coffee	
9.00 - 9.30	Opening Ceremony	
9.30 - 10:15	Plenary Lecture	
10:15 -11:00	Refreshments	
	Session A	Session B
11:00 - 12:15	Noise Measurements - 1	PIV Applications - 1
12:15 - 14:00	Lunch	
14.00 - 15.15	EU-FP7 Projects AQUO and SONIC	PIV Applications - 2 & Optical Measurements - 1
15.15 - 15.45	Refreshments	
15.45 - 17:00	Noise Measurements - 2	Optical Measurements - 2 & Experimental Uncertainty
18:30 - 23:00	Conference dinner	
DAY 2	Wednesday 18th September	
8:00 - 9:00	Coffee	
	Session A	Session B
9:00 - 10:15	Coating Performance Measurement	Sensors - 1 & Control Technology
10:15 - 11:00	Refreshments	
11:00 - 12:15	Frictional Drag reduction Technology	Sensors - 2 & Smart Free Running Tests
12:15 - 14:00	Lunch	
14:00 - 15:15	Pod Propulsor Measurements	Misc. Smart Tank Testing
15:15 - 15:45	Refreshments	
15:45 - 16:10	Cavitation Erosion	
16:10 - 16:30	Closing Ceremony	