

Day 1: August 24

7:00

**Opening of Workshop
Welcome by Host
Speechs by N. Newman, D. Evans**

No.	Title	Author(s)	Leading Affiliation	
Session 1-1 Wave Loads (Chair: J.N. Newman)				
07:15-07:50	D1-1-1	Vertical column in strong water wave events: runup, runup velocity and their scaling	J. Grue, B. Osyka	University of Oslo, Oslo
	D1-1-2	Heading and spreading effects on wave run-up due to tertiary interactions	W. Zhao, P. H. Taylor, H. A. Wolgamot, C. Q. Bhoussaine	University of Western Australia
	D1-1-3	Experiments of wave-in-deck into a solid deck using focussed waves	H. Santo, P.H. Taylor, S.S. Dai, A.H. Day, E.S. Chan	Technology Centre for Offshore and Marine
	D1-1-4	Nonlinear wave runup on a FPSO bow causing greenwater events	L. Chen, P.H. Taylor, S. Draper, H. Wolgamot, L. Cheng, D.Z. Ning	The University of Western Australia

Session 1-2 Hydrodynamic Impact (Chair: J. Grue)				
07:50-08:23	D1-2-1	Oblique impact of elastic plate on thin liquid layer	T.I. Khabakhpasheva, A.A. Korobkin	Lavrentyev Institute of Hydrodynamics
	D1-2-2	Aerated wave impacts on floating bodies	M. van der Eij, P. R. Wellens, R.W. Bos	University of Technology Delft
	D1-2-3	A fully-nonlinear potential flow model for water entry/exit in aircraft ditching applications	A.D. Buono, A. Iafrati, A. Tassin, S. Ianniello	CNR-INM
	D1-2-4	Experimental study of phase transition in sloshing-induced impact in two-dimensional tank	J. Lee, Y. Ahn, J. Kim, Y. Kim	Seoul National University

5-min Break

Session 1-3		Nonlinear Waves (Chair: R. Eatock Taylor)		
08:28-09:01	D1-3-1	On the rapid spectral evolution of steep wave groups: directional spreading and the spectral tail (Presentation by Tuck Fellowship Winner)	D. Barratt, H.B. Bingham, P.H. Taylor, T.S. van den Bremer, T.A.A. Adcock	University of Oxford
	D1-3-2	Miloh's image singularities for oblate spheroids - A method developed for the water wave diffraction and radiation problems	E.I. Anastasiou, I. K. Chatjigeorgiou, E. Loukogeorgaki, T. Miloh	National Technical University of Athens
	D1-3-3	Wave groups in the ocean	Takuji Waseda	Tokyo University
	D1-3-4	Third-order wave run-up in diffraction-radiation problems	C.O .Housseine, B. Molin, W. Zhao	Bureau Veritas Marine & Offshore

Session 1-4		Special Memorial Session for Prof.Marshall Tulin (Chair: T. Miloh)		
09:01-09:45		Life and contribution of Prof.Marshall Tulin	T. Miloh	Tel Aviv University
		Special Memories with Prof.Marshall Tulin	T. Miloh, G. Dagan, J. Grue, S.J. Lee, N. Newman, G. Zilman and T. Waseda and more	

Day 2: August 25

07:00

Opening of Day 2 & Announcement

Session 2-1

Water Waves with Viscosity (Chair: D. Evans)

07:04-07:45	D2-1-1	An experimental and numerical study of the vortex shedding	I. A. Milne, O. Kimmoun, B. Moli, J. M. R. Graham	The University of Western Australia, Crawley
	D2-1-2	Flexural wave motion in viscous fluid: Stability analysis	H. Behera, S. A. Selvan, S. Ghosh, M.H. Meylan	SRM Institute of Science and Technology
	D2-1-3	Ship-motion Green function with viscous effect	Xiaobo Chen	Bureau Veritas Marine & Offshore
	D2-1-4	A coupling of linear potential flow model based on Poincaré's	Y.M. Choi, B. Bouscasse, L. Gentaz, P. Ferrant, S. Malenica	Bureau Veritas, Paris
	D2-1-5	CFD based detection of slamming loads for calibration of a pressure-impulse model	A. Ghadirian, H. Bredmose	DTU Wind Energy

5-min Break

Session 2-2

Hydroelasticity (Chair: O.M. Faltinsen)

07:50-08:23	D2-2-1	Wave scattering from multiple circular floating porous elastic plates	S. Zheng, M. H. Meylan, G. Zhu, D. Greaves, G. Iglesias	University of Plymouth
	D2-2-2	Unsteady motion of two-dimensional dipole in water under floating compressed elastic plate	Y.A. Stepanyants, I.V. Sturova	University of Southern Queensland
	D2-2-3	Singularity in the second order flexural-gravity waves	B. Teng, S. Liang, Y. Gou, A.A. Korobkin, S. Malenica	Dalian University of Technology
	D2-2-4	On the generalized motions/deformations of the floating bodies	S. Malenica, F. Bigot	Bureau Veritas, Paris

5-min Break

Session 2-3		Moonpool or Gap Flows (Chair: B. Molin)		
08:28-09:01	D2-3-1	Effects of Nonlinearity on Wave-Induced Fluid Resonance within A Narrow Gap between two barges	Z. Song, Lin Lu, G. Tang, X. Lou, L Cheng	Dalian University of Technology
	D2-3-2	Numerical study on the influence of heave motion on gap resonance between two floating boxes	H. Ding, J. Zang, J. Gao, C. Blenkinsopp	University of Bath
	D2-3-3	Natural modes in three-dimensional rectangular moonpools with recess in finite-depth waters	X. Zhang, Z. Li, J. Han	Shanghai Jiao Tong University
	D2-3-4	Prediction of hydrodynamic forces on passing ships	J. Park, B. Nam, Y. Kim	Seoul National University

09:05	Technical Committee Meeting
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Day 3: August 26

07:00

Opening of Day 3 & Announcement

Session 3-1

Ship Flows (Chair: R. Beck)

07:04-07:45	D3-1-1	Prediction of Wave Loads with Measured Unsteady Pressure Distribution on Ship-Hull Surface	M. Kashiwagi, H. Iwashita, K.T. Waskito, M. Hinatsu	Osaka University
	D3-1-2	Experimental study of sloshing effect on added resistance in head waves	Z. Zhu, B.S. Kim, Y. Kim	Seoul National University
	D3-1-3	Wave-induced drift motion during ship turning	H. Yasukawa, M. A.A. Hasnan	Hiroshima University
	D3-1-4	Unsteady waves generated by a ship travelling over a step bottom	M. Li, Z.M. Yuan, R.W. Yeung	University of Strathclyde
	D3-1-5	Numerical investigation on ship generated mini-tsunamis	Zhenghan Wu, Xinshu Zhang, John Grue	Shanghai Jiao Tong University

5-min Break

Session 3-2

Numerical Simulation of Free-Surface Flows (Chair: M. Kashiwagi)

07:50-08:31	D3-2-1	Time domain simulation of the unidirectional and directional focused waves	B.B. Zhao, Y. Xu, K. Zheng, W.Y. Duan, Y.L. Shao, R.C. Ertekin	Harbin Engineering University
	D3-2-2	Numerical simulation of free surface effects on Air Cavity Topology	Y. Huang, X. Wang, A. Dev, D.A. Hudson	Newcastle University in Singapore
	D3-2-3	Incorporating a semi-Lagrangian body-free-surface intersection point in a fully nonlinear potential flow model	J. Hicks, H. Bingham, R. Read, A.P. Engsig-Karup	Technical University of Denmark
	D3-2-4	On a new explicit time-integration method for advection equation and its application in hydrodynamics	Yanlin Shao	Technical University of Denmark
	D3-2-5	A note on a trial to improve linearized solution in water wave problems	I. J. Lee, E. S. Kim, S. H. Kwon	Pusan National University

4-min Break

Session 3-3

Higher-order Components of Wave Loads (Chair: R. Yeung)

08:35-09:00	D3-3-1	Second and third order sub-harmonic wave responses of floating wind turbines	J. Orszaghova, P.H. Taylor, H. Wolgamot, H. Bredmose, A. Pegalajar-Jurado, F.J. Madsen	University of Western Australia
	D3-3-2	Extraction of higher harmonic wave elevation and loads using a four-phase approach in fully nonlinear simulations	X. Feng, P.H. Taylor, W. Bai, T.A.A. Adcock	Southern University of Science and Technology
	D3-3-3	An NlogN method for second-order wave loads on a vertical pile	H. Bredmose, A. Pegalajar-Jurado	DTU Wind Energy

09:00-09:30

Virtual gathering of all participants (Hosted by Y. Kim)

Day 4: August 27

07:00

Opening of Day 4 & Announcement

Session 4-1

Wave propagation (Chair: A. Korobkin)

07:04-07:37	D4-1-2	On dispersion-corrected shallow water equations with varying bottom	Didier Clamond	Universit'e C'ote d'Azur
	D4-1-3	A modified Benjamin-Feir index for crossing sea states	S. Liu, X. Zhang	Shanghai Jiao Tong University
	D4-1-4	Study of the interaction of a solitary wave with a submerged obstacle through a depth	G. Colicchio, M. Antuono	CNR-INM
	D4-1-5	On mode 1 and mode 2 internal solitary waves in a three layer fluid system	T.Y. Zhang, Z. Wang, Z.H. Wang, B.T. Xie, B.B. Zhao, W.Y. Duan, M. Hayatdavoodi	Harbin Engineering University

5-min Break

Session 4-2

Interactions with Ice (Chair: A. Iafrazi)

07:42-08:07	D4-2-1	On drift motion of deformable ice sheets by nonlinear waves	V. Kostikov, M.Hayatdavoodi, R.C. Ertekin	Harbin Engineering University
	D4-2-2	Flexural gravity wave scattering for compressed ice	M. H. Meylan, T. Sahoo, S. Das	University of Newcastle
	D4-2-3	Vertical impact on floating ice	A.A. Korobkin, T.I. Khabakhpasheva	University of East Anglia

5-min Break

Session 4-3

Wave-body interactions (Chair: H. Bingham)

	D4-3-1	Numerical study towards closed fish farms in waves using two Harmonic Polynomial Cell methods	Y. Shen, M. Greco, O. M. Faltinsen, S. Ma	University of Norwegian Science and Technology
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08:12-08:45	D4-3-2	Non-linear hybrid model for forced heave of a shallowly submerged cylinder	G. McCauley, H. Wolgamot, S. Draper, J. Orszaghova	University of Western Australia
	D4-3-3	Finite difference solutions for nonlinear water waves using an immersed boundary method	Y. Su, H.B. Bingham, Y. Shao	Technical University of Denmark
	D4-3-4	Experimental observation of Rainbow Trapping of water waves	A. Archer, H. Wolgamot, J. Orszaghova	The University of Western Australia

08:45 PM **Closing of Workshop**