SPHERIC

SPH European Research Interest Community

List of members – November 2016

Steering Committee

Member	Type of institution	Representing person	Address	e-mail	Research interest
University of Manchester	Academic	Ben ROGERS (Chair)	School of Mechanical, Aerospace & Civil Engineering University of Manchester Manchester M13 9PL UK	benedict.rogers@manchester.ac.uk + p.k.stansby@manchester.ac.uk + steven.lind@manchester.ac.uk	Coastal hydrodynamics; Floating bodies; Aerated flows, multi-phase flows, high temperature applications
National University of Ireland, Galway	Academic	Nathan QUINLAN (secretary)	Dept. of Mechanical and Biomedical Eng. NUI Galway IRELAND	nathan.quinlan@nuigalway.ie + mihai.basa@nuigalway.ie + martin.lastiwka@nuigalway.ie	
University of Vigo	Academic	Alex CRESPO (webmaster) Moncho GOMEZ-GESTEIRA	EPHYSLAB Environmental Physics Laboratory Edificio de Física Campus As Lagoas s/n Universitad de Vigo 32004 Ourense SPAIN	alexbexe@uvigo.es + mggesteira@uvigo.es	Coastal engineering applications, high performance computing, pre-processing, visualisation
EDF R&D	Industrial	Damien VIOLEAU (newsletter editor)	Laboratoire National d'Hydraulique et Environnement EDF R&D 6 quai Watier 78400 Chatou	damien.violeau@edf.fr + dominique.laurence@edf.fr + serguei.potapov@edf.fr	Free surface Flows; Turbulence; Water waves / structure interaction; Multiphase Flow; Waterworks.

			FRANCE		
Ecole Centrale Nantes	Academic	David LE TOUZÉ	Ecole Centrale Nantes 1 rue de la Noë 44300 Nantes FRANCE	david.letouze@ec-nantes.fr + nicolas.grenier@ec-nantes.fr + guillaume.oger@ec-nantes.fr + daniel.barcarolo@ec-nantes.fr + matthieu.kerhuel@ec-nantes.fr	Free surface and interface flows, Ocean engineering, Fluid-Structure Interactions; Multiphase flows
University of Pavia	Academic	Stefano SIBILLA	Dipartimento di Ingegneria Idraulica Ambientale Università degli Studi di Pavia Via Ferrata 1 Pavia, 27100 ITALY	stefano.sibilla@unipv.it	
ANDRITZ Hydro SAS	Industrial	Jean-Christophe MARONGIU	Andritz HYDRO SAS Bvd Albert Einstein 69000 Villeurbanne FRANCE	jean-christophe.marongiu@andritz.com	Hydraulic turbomachinery; Pelton turbines; Water jets; Water sheets;Hydraulic intakes.
Hamburg University of Technology (TUHH)	Academic	Thomas RUNG	Hamburg University of Technology, Institute for Fluid Dynamics and Ship Theory Schwarzenbergstrasse 95c 21073 Hampburg GERMANY	thomas.rung@tu-harburg.de	
Technical University of Madrid (UPM)	Academic	Antonio SOUTO IGLESIAS	Naval Architecture Department (ETSIN) Technical University of Madrid (UPM) Arco de la Victoria s/n. 28040 Madrid SPAIN	antonio.souto@upm.es	

CNR-INSEAN	Government research	Andrea COLAGROSSI	CNR-INSEAN The Italian Ship Model Basin Via di Vallerano 139 00128 Rome ITALY	andrea.colagrossi@cnr.it + benjamin.bouscasse@cnr.it + salvatore.marrone@cnr.it	Ship Dynamic; Sloshing Flows; Impact flows and related loads on ship structures; Numerical methods for free surface flows
Technical University of Munich	Academic	Xiangyu HU	Institute of Aerodynamics Technical University of Munich Arcisstrasse 21 80333 München GERMANY	xiangyu.hu@tum.de + marco.ellero@aer.mw.tum.de	Microfluidic applications; Lagrangian turbulence.
Cranfield University	Academic	Rade VIGNJEVIC	Cranfield University School of Engineering SIMD Cranfield Bedford MK43 0AL, UK	v.rade@cranfield.ac.uk	
University of Parma	Academic	Renato VACONDIO	University of Parma, v.le G.P. Usberti 181/A 43100 Parma, ITALY	renato.vacondio@unipr.it	
NEXTFLOW Software	Industrial	Matthieu DE LEFFE	NEXTFLOW Software, 1 rue de la Noë, CS 32113, 44321 Nantes Cedex 3, France	matthieu.de-leffe@nextflow-software.com + amaury.bannier@nextflow-software.com + david.imbert@nextflow-software.com	Free-surface flows, multiphase flows, fluid-structure interactions

Other members

Member	Type of institution	Representing person	Adress	e-mail	Research interest
ESI-Group Netherlands	Industrial	Paul GROENENBOOM	ESI Group (Engineering Systems International B.V.) Radex Innovation Centre Rotterdamseweg 183 C 2629 HD Delft THE NETHERLANDS	pgr@esi-group.com	
University of Plymouth	Academic	Jason HUGHES	School of Computing and Mathematics, Plymouth University, Drake Circus, Plymouth, PL4 8AA, UK	jhughes@plymouth.ac.uk + dgraham@plymouth.ac.uk + qingping.zou@plymouth.ac.uk	Water wave / structure interactions; Turbulence; Multiphase Flow; Non-Newtonian Flow; Mathematical Analysis.
Ecole Centrale de Lyon	Academic	Joëlle CARO	LMFA, Ecole Centrale de Lyon, 36 av. Guy de Collongue, F-69134 Ecully cedex, FRANCE	joelle.@ec-lyon.fr	Hydraulic turbines ; Liquid jets ; Free surface flow.
CSCS	Academic	John BIDDISCOMBE	Swiss National Supercomputing Centre via cantonale, CH-6928, Manno, SWITZERLAND	biddisco@cscs.ch + jfavre@cscs.ch + jeanguillaume.piccinali@cscs.ch	
ANDRITZ Hydro AG	Industrial	Martin RENTSCHLER	Andritz HYDRO, rue des deux gares 6, 1800 Vevey, SWITZERLAND	Martin.Rentshcler@andritz.com	Hydraulic turbomachinery; Pelton turbines; Water jets; Water sheets; Hydraulic intakes.
Johns Hopkins University	Academic	Robert	Department of Civil Eng.,	rad@jhu.edu	

		DALRYMPLE	Whiting School of Engineering, 3400 N. Charles Street, Baltimore MD 21218-2682, USA		
University of Nottingham	Academic	Herve MORVAN	School of Civil Engineering, University of Nottingham, Nottingham NG7 2RD, UK	Herve.Morvan@nottingham.ac.uk + Nigel.Wright@nottingham.ac.uk	
University of Bradford	Academic	Songdong SHAO	School of Engineering, Design and Technology, University of Bradford, West Yorkshire BD7 1DP, UK	s.shao@Bradford.ac.uk	Incompressible SPH; Free Surface Flow; Wave Breaking; Overtopping; Fluid-Structure Interactions.
University of Stuttgart	Academic	Peter EBERHARD	Institute of Engineering and Computational Mechanics, University of Stuttgart, Pfaffenwaldring 9, 70569 Stuttgart, Germany	peter.eberhard@itm.uni-stuttgart.de	Sloshing fluids, adaptivity, boundary treatment, abrasive damage and cutting processes
CSIRO Mathematical and Information Sciences	Academic	Paul CLEARY	CSIRO Mathematical and Information Sciences, Private Bag 33, Clayton South, VIC, 3169, AUSTRALIA	paul.cleary@csiro.au	Turbulence; Water waves; Fluid-structure interaction; Ship hydrodynamics.
Ecole Polytechnique Fédérale de Lausanne	Academic	François AVELLAN	EPFL-STI-LMH, Avenue de Cour 33 bis, CH-1007 Lausanne, SWITZERLAND	francois.avellan@epfl.ch	Hydraulic machinery; Cavitation; Flow surfaces.
Université du Havre	Academic	Louis BLONCE	Université du Havre, 25, rue Philippe Lebon, BP 540, 76058 Le Havre cedex, France	louis.blonce@univ-lehavre.fr	
Swiss Federal Institute of Technology	Academic	Petros KOUMOUTSAKOS	ETH Zurich, Universitatstrasse 6, ETHZ -	petros@inf.ethz.ch	Multiscale simulation; Bluff

			CAB H69.2, Zurich, CH-8092, SWITZERLAND		body flows; Biophysics; Growth and pattern formation; Vortex dynamics.
Ricerca sul Sistema Energetico – RSE SpA	Government research	Roberto GUANDALINI + Andrea AMICARELLI	Ricerca Sistema Energetico - RSE Spa, Environment and Sustainable Development Department, via Rubattino, 54, 20134 Milano, ITALY	roberto.guandalini@rse-web.it + andrea.amicarelli@rse-web.it	Dam safety; Sediment transport; Landlside-induced water waves; Software parallelization.
University of Genova	Academic	Michele VIVIANI	University of Genova, Dept. of Naval Architecture, Marine Engrg, Electrical Engrg, and Electronical Engrg (DITEN), Via Montallegro, 1, 16145 Genova, ITALY	viviani@dinav.unige.it + brizzolara@dinav.unige.it	Sloshing phenomena inside ship tanks; Green water on deck (violent water embarquement).
Dublin Institute of Technology	Academic	Gerard HEAPES	Dublin Institute of Technology Faculty of Engineering, School of Civil and Building Services, Bolton St., Dublin 1, IRELAND	gerard.heapes@dit.ie	
Bhabba Atomic Research Center	Government research	Vishal MEHRA	Bhabba Atomic Research Center, Visakhapatnam, INDIA	Vmehra10@yahoo.com	Hypervelocity impacts; Riemannian SPH.
BAE SYSTEMS	Industrial	Robert BANIM	BAE SYSTEMS Advanced Technology Centre, FPC 267, PO Box 5, Filton, Bristol BS34 7QW, UK	Robert.Banim@baesystems.com + jon.feldman@baesystems.com	Resin transfer moulding; Manufacturing process; Sloshing; Highly viscous flow; Shell filling.Bird strike, Multiphase flows, Ice accretion

University of West Bohemia	Academic	Libor LOBOVSKÝ	Department of Mechanics University of West Bohemia in Pilsen, Univerzitní 22, 30614 Plzeň, CZECH REPUBLIC	lobo@kme.zcu.cz	
UNISA CUGRI (University Consortium for Research on Major Hazards)	Academic	Giacomo VICCIONE	CUGRI, Piazza Vittorio Emanuele 84080 Penta di Fisciano ITALY	epc@unisa.it, + cugri@unisa.it	
City University London	Academic	Qingwei MA	School of Engineering and Mathematical Sciences, City University, Northampton Square, London EC1V 0HB, UK	q.ma@city.ac.uk	
HydrOcean	Industrial	Erwan JACQUIN	HydrOcean, 8 boulevard Einstein CS 32327 44323 Nantes cedex 3, FRANCE	erwan.jacquin@hydrocean.fr + yoann.jus@hydrocean.fr + daniel.barcarolo@hydrocean.fr + nicolas.couty@hydrocean.fr	Free surface flows, green water, sloshing
Laboratório Nacional de Engenharia Civil	Government research	Eric DIDIER	Laboratório Nacional de Engenharia Civil, LNEC / NPE / DHA, Av. Do Brasil, 101, 1700-066 Lisboa, PORTUGAL	edidier@lnec.pt	Free surface flow; Wave-structure interaction; Wave breaking; Wave overtopping.
Catholic University Leuven	Academic	Paul Van LIEDEKERKE	Catholic University Leuven, Kasteelpark Arenberg 30, 3001 Heverlee, BELGIUM	Paul.VanLiedekerke@biw.kuleuven.be	
University of Calabria	Academic	Francesco ARISTODEMO	University of Calabria, via P. Bucci 1, cubo 42 B, Arcavacata di Rende (CS), ITALY	aristodemo@dds.unical.it + aristotool@gmail.com	Free surface flows; Bottom roughness; Multiphase flows.
University of Ljubljana	Academic	Dusan ZAGAR	University of Ljubljana, Jamova 2, SI-1000 Ljubljana, SLOVENIA	dzagar@fgg.uni-lj.si	

Virginia Tech	Academic	Leigh McCUE	Virginia Tech, 224-10 Randolph Hall (0203), Blacksburg, VA 24061, USA	mccue@vt.edu + weiszr@vt.edu + jirish@vt.edu	
SINTEF	Industrial	Paal SKJETNE	Chemical Eng. Group, Department of Process Technology, SINTEF Materials and chemistry, Sem Sælandsvei 2A, 7465 Trondheim, NORWAY	paal.skjetne@sintef.no	
Monash University	Academic	Ha H. BUI	Monash University, Clayton, Vic 3800, Melbourne, AUSTRALIA	buihongha@gmail.com + daniel.price@monash.edu + joe.monaghan@monash.edu	
Karlsruhe Institute of Technology	Academic	H.-J. BAUER	Thermische Stroemungsmaschinen Kaiserstr. 12, 76131 Karlsruhe GERMANY	hans-joerg.bauer@kit.edu + corina.hoefler@kit.edu + rainer.koch@kit.edu + samuel.braun@kit.edu	
Sulzer Markets & Technology Ltd	Industrial	F. MUGGLI	Advanced Fluid Technology 1554, P.O. Box, CH-8404 Winterthur SWITZERLAND	felix.muggli@sulzer.com	
University of Heidelberg	Academic	Peter BERCZIK	Astronomisches Rechen-Institut (ARI), Zentrum für Astronomie der Universität Heidelberg (ZAH), Mönchhofstrasse 12-14, 69120 Heidelberg, GERMANY	berczik@ari.uni-heidelberg.de	Compressible flows; combining SPH with other processes (time-dependent chemical networks or radiation).
Amir Kabir University of Technology	Academic	Shariar ABTAHI	Amir Kabir University of Technology, Hafez Street, Tehran, IRAN	sh.abtahi@aut.ac.ir + a.dashtimanesh@aut.ac.ir + hasepyani@gmail.com	Wave-structures interaction;Wave group generation and breaking
Istituto Nazionale di Geophisica e Vulcanologia	Government research	Ciro DEL NEGRO	Instituto Nazionale di Geophisica e Vulcanologia, Sezione di Catania, Piazza	delnegro@ct.ingv.it	

			Roma 2, 95123 Catania, ITALY		
National Technical University of Athens	Academic	John ANAGNOSTO-POULOS	School of Mechanical Engineering, Heroon Polytehniou 9, Zografou, 15780 Athens, GREECE	anagno@fluid.mech.ntua.gr	
University of Exeter	Academic	Matthew BATE	School of Physics, University of Exeter, Stocker Road, Exeter EX4 4QL, UK	mbate@astro.ex.ac.uk	Astrophysics
Kyoto University	Academic	Hitoshi GOTOH	Dept. of Civil and Earth Resources Eng., Kyoto University, Katsura Campus, Nishikyo-ku, Kyoto 615-8540, JAPAN	gotoh@particle.kuciv.kyoto-u.ac.jp + khayyer@particle.kuciv.kyoto-u.ac.jp	
CRS4	Industrial	Luca MASSIDDA	Loc. Piscina Manna ed. 1 09010 Pula (CA), ITALY	Luca.Massidda@crs4.it	liquid metal , nuclear target systems
University of Regina	Academic	Ahmad SHAKIBAEINIA	Faculty of Engineering and Applied Science, University of Regina, 3737 Wascana Parkway, Regina, Saskatchewan, S4S 0A2, CANADA	shakibaa@uregina.ca + jabbaria@uregina.ca + mossafam@uregina.ca	Multiphase flow, free surface flow, SPH like mesh-free particle methods such as MPS
University of Auckland	Academic	Raj DAS	20 Symonds Street, Auckland 1010, NEW ZEALAND	r.das@auckland.ac.nz	Solid deformation, impact , Fracture
Alstom Hydro	Industrial	Pierre LEROY	82, av Leon Blum, 38041 Grenoble Cedex 9, FRANCE	Pierre.leroy@power.alstom.com + farid.mazzouji@power.alstom.com + emmanuel.flores@power.alstom.com	Turbomachine / Free surface flow

MARA University of Technology	Academic	Jasrul Nizam GHAZALI	Faculty of Computer Science & Mathematics, MARA University of Technology, 40000, Shah Alam, MALAYSIA	jasrul@tmsk.uitm.edu.my + liza@tmsk.uitm.edu.my	
Instituto Superior Tecnico	Academic	João M. MELO DE SOUSA	Av. Rovisco Pais, 1049, 001 Lisboa, PORTUGAL	msousa@ist.utl.pt + shahab.khorasanizade@ist.utl.pt	fluid dynamics, multiphase flow, turbulent flow, ISPH, boundary treatment, GPU implementation
Australian Nuclear Science and Technology Organisation (ANSTO)	Government Research	Michael SALEH	Building 3, Locked bag 2001 Kirrawee DC NSW 2232, AUSTRALIA	michael.saleh@ansto.gov.au + lyndon.edwards@ansto.gov.au	continuum dynamics, fluid structure interaction, high velocity impact
Eindhoven University of Technology	Academic	Martijn ANTHONISSEN	Centre for Analysis, Scientific computing and Applications , P.O. Box 513, 5600 MB Eindhoven, THE NETHERLANDS	m.j.h.anthonissen@tue.nl + w.h.a.schilders@tue.nl + a.s.tijsseling@tue.nl + linden@win.tue.nl + m.e.hochstenbach@tue.nl + i.zisis@tue.nl + a.muntean@tue.nl + s.p.korzilius@tue.nl + j.h.m.evers@tue.nl	Numerics and fundamentals of SPH
The University of Adelaide	Academic	Moein NAVVAB KASHANI	Room N242, School of Chemical Engineering, Engineering North Building, North Terrace Campus The University of Adelaide, SA 5005, AUSTRALIA	Moein.NavvabKashani@Adelaide.edu.au + mark.biggs@adelaide.edu.au + vladimir.zivkovic@adelaide.edu.au + hamideh.elekaeibehjati@adelaide.edu.au	Simulation of solid-liquid and liquid-liquid flows in microchannels to improve the design capacity of multiphase microfluidic devices
Newcastle University	Academic	Qiuhua LIANG	School of Civil Engineering and Geosciences, Newcastle University, Newcastle upon Tyne, NE1 7RU, England,	qiuhua.liang@newcastle.ac.uk + x.xia@newcastle.ac.uk	shallow flow simulations, floods, debris flows

			UK		
University of Zanjan	Academic	Jafar GHAZANFARIAN	Mechanical Engineering Department, Faculty of Engineering, University of Zanjan, P.O. Box 45195-313, Zanjan, Iran	j.ghazanfarian@znu.ac.ir + roozbeh_sa66@yahoo.com	Solid-Fluid Interaction, Free surface flows, Applications in Nanoscale and Die casting
National Taiwan University (NTU)	Academic	Tsang-Jung CHANG	1, Section 4, Roosevelt Road, Taipei, Taiwan, China	tjchang@ntu.edu.tw + hmkao@ntu.edu.tw + f94622026@ntu.edu.tw + apefish.tw@yahoo.com.tw + sheng_einstein@hotmail.com	Shallow water equations
New York University, Tandon School of Engineering	Academic	Angelantonio TAFUNI	6 Metrotech Center, 11201 Brooklyn NY, USA	atafuni@nyu.edu + iskender.sahin@nyu.edu	Free-Surface Hydrodynamics, Ocean Engineering, Fluid-structure Interaction, Underwater Vibration
Université du Luxembourg	Academic	Bernhard PETERS	Université du Luxembourg Faculté des Sciences, de la Technologie et de la Communication Campus Kirchberg 6, rue Coudenhove-Kalergi L-1359 Luxembourg	bernhard.peters@uni.lu + yuchung.liao@uni.lu	Interaction fluid - objects
University of Central Lancashire	Academic	Dimitris STAMATELLOS	Jeremiah Horrocks Institute, University of Central Lancashire, UK	dstamatellos@uclan.ac.uk + BMacfarlane@uclan.ac.uk + APMercer@uclan.ac.uk	Astrophysics, star formation, planet formation, protostellar disc physics
University of Innsbruck	Academic	Wolfgang RAUCH	University of Innsbruck A-6020 Innsbruck	Wolfgang.Rauch@uibk.ac.at + daniel.winkler@uibk.ac.at + michael.meister@uibk.ac.at	Environmental Engineering

Flanders Hydraulics Research	Research institute	Tomohiro SUZUKI	Berchemlei 115, 2140 Antwerpen, Belgium	tomohiro.suzuki@mow.vlaanderen.be + Corrado.Altomare@mow.vlaanderen.be	Wave structure interaction
EPHYTECH (Environmental Physics Technologies S.L)	Industrial	Ángel ÁLVAREZ Fernández	EPHYTECH Sta. Cruz de Arrabaldo, Sistis 4. Ourense 32593	angel@ephytech.com orlando@ephytech.com	Advanced visualisation for SPH models, urban flooding and debris flows
Bournemouth University	Academic	Richard SOUTHERN	National Centre for Computer Animation, Bournemouth University, Poole, BH12 5BB, UK	rsouthern@bournemouth.ac.uk mjiang@bournemouth.ac.uk	Boundary conditions, Visual Effects, Real-time applications, Rendering
Escuela Superior Politécnica del Litoral (ESPOL)	Academic	Ruben J. PAREDES	Km 30., Vía Perimetral 5, Guayaquil, Ecuador	rparedes@espol.edu.ec	Free surface flows, naval architecture applications, sedimentation
Beuth Hochschule für Technik Berlin	Academic	Joachim VILLWOCK	Beuth HS, Fachbereich VIII, Luxemburger Str. 10, 13353 Berlin	villwock@beuth-hochschule.de coertel@beuth-hochschule.de Pierre.Sabrowski@fsd.tu-berlin de	Simulation of Sedimentation in Waste Water and Simulation of the Washing Process in a rotating drum
Seoul National University	Academic	Jihoe KWON	38(Bldg)-305(Room), Seoul National University, 1 Gwanakro Gwanakgu Seoul, Korea; 151-744	iori96@snu.ac.kr myidjejy@snu.ac.kr hccho@snu.ac.kr	liquid-dust multiphase flow / surface tension dominant flow / mineral processing
Auburn University	Academic	Stephen NICHOLS	Auburn University Aerospace Engineering Department, 331 Davis Hall, Auburn University, Auburn, AL 36849	Stephen.Nichols@auburn.edu	Fluid Dynamics, High Performance Supercomputing

Peking University	Academic	Moubin LIU	# 5 Yi He Yuan Lu, Haidian District, Beijing 100871, China	mbliu@pku.edu.cn mbliu_pku@foxmail.com weng-xi@foxmail.com 280065886@qq.com	Approximation techniques with applications in free-surface and interfacial flows, explosion and impact