Program for EMN Meeting on Droplets 2016

Monday May 9		
14:00-18:00	**Onsite registration & Sign up**	
Tuesday May.10 **Room A**		
8:50	**Opening Ceremony**	**Yury Rakovich** Materials Physics Center (CFM, CSIC-UPV/EHU), Donostia – San Sebastian, Spain
Session: Droplet Dynamics I Chair: Masanobu Sagisaka		
9:00-9:25	A01: Multicomponent Droplet Dynamics and Evaporation on Wettability Patterned Surfaces	**Huihe Qiu** The Hong Kong University of Science & Technology, Hong Kong
9:25-9:50	A02: Sliding Drops - stationary states and collective dynamics	**Uwe Thiele** University of Münster, Germany
9:50-10:15	A03: From spreading and dewetting to highly ordered patterns	**Veronique Pimienta** Université Paul Sabatier, France
10:15-10:40	A04: Polymeric Microcapsules Synthesized Via Dynamic Morphological Transition from Microfluidic Janus Droplets	**Takasi Nisisako** Tokyo Institute of Technology, Japan
10:40-11:05	A05: Singular Perturbad Homotopy Analysis Method (SPHAM) apply to combustion of polydisperse fuel spray	**Ophir Nave** Jerusalem College of Technology, Israel
11:05-11:20	Session Break	

Session: Droplet Stabilization Chair: Uwe Thiele		
11:20 -11:45	A06: Compatibilizing effect of clay nanoparticles in immiscible polymer blends with droplet morphology	**Thierry Aubry** LIMATB UBO, France
11:45-12:10	A07: Dispersion of Aqueous Nanodrolets in Supercritical Carbon Dioxide by The Headgroup-free Fluorocarbon-Hydrocarbon Hybrid Compound	**Masanobu Sagisaka** Graduate School of Science and Technology, Hirosaki University, Japan
12:10-12:35	A08: Microfluidic Encapsulation of Pickering Oil Microdroplets into Alginate Microgels for lipophilic Compound Delivery	**Melanie Marquis** INRA - BIA - Equipe NANO Rue de la géraudière, France
12:35-13:00	A09: Highly Stable Oil-in-Oil Emulsions Stabilized by Ion Complexes	**Hideki Sakai** Tokyo University of Science, Japan
13:00-13:25	A10: Encapsulation of nanostructured micro-emulsion droplets by isotropic and anisotropic nanoparticles	**François Muller** ECE-Paris, France
13:25-15:30	Lunch Break	

Tuesday May.10 Room B		
Session: Droplet Dynamics II Chair: Ying-Song Yu		
15:30-15:55	B01: Controlling a Droplet via a Phase Diagram	**Peng-Sheng Wei** National Sun Yat-Sen University, Taiwan
15:55-16:20	B02: The Effects of the surface property on behavior of micro droplet impinging onto hot surface	**Masamichi Kohno** KYUSHU University, Japan
16:20-16:45	B03: MEMS force sensors for measuring droplet dynamics	**Nguyen Thanh-Vinh** University of Tokyo, Japan
16:45-17:10	B04: Thermal and Fluid Dynamics of Droplet-Wall Interactions based on a Multiscale Approach	**Ana Moita** Instituto Superior Técnico, Portugal
17:10-17:25	Session Break	
Session: Droplet Dynamics III Chair: Masamichi Kohno		
17:25-17:50	B05: Transient volume of evaporating sessile droplet with constant contact radius	**Ying-Song Yu** Hubei University of Technology, China
17:50-18:15	B06: Rotational behavior in cholesteric liquid crystalline droplets under temperature gradient	**Jun Yoshioka** Waseda University, Japan
18:40-19:05	B07: Breakup of viscous drops in liquid/liquid dispersions	**Nida Sheibat-Othman** Université Claude Bernard Lyon1, France
19:05-19:30	B08: Wetting dynamics for structured surfaces	**Rafael Taboryski** Technical University of Denmark, Denmark
20:00	Dinner Social	

Tuesday May.10 Room C		
Session: General I Chair: Sergei Sazhin		
15:30-15:55	C01: From ocean foam to clouds to nanobubbles	**Avi Marmur** Israel Institute of Technology, Israel
15:55-16:20	C02: Wetting properties of partially suspended graphene monolayers	**Thierry Ondarçuhu** Nanosciences group, CEMES-CNRS, France
16:20-16:45	C03: Production of poor water soluble intermediate reaction products by integrated systems of biocatalytic membrane reactor/membrane emulsification	**Rosalinda Mazzei** Institute on Membrane Technology, CNR-ITM, Italy
16:45-17:10	C04: Regularities of pure liquid droplets phase transformation cycle and its defining factors	**Monika Maziukiene** Kaunas University of Technology, Lithuania
17:10-17:25	Session Break	
Session: General II Chair: Thierry Ondarçuhu		
17:25-17:50	C05: Modelling of droplet heating and evaporation: recent results and unsolved problems	**Sergei Sazhin** University of Brighton, UK
17:50-18:15	C06: Bottom-Up Formation of Nanoemulsions from Hydrothermal Homogeneous Solutions of Oil in Water	**Shigeru Deguchi** Japan Agency for Marine-Earth Science and Technology (JAMSTEC), Japan
18:15-18:40	C07: Encapsulation in double emulsions	**Véronique Schmitt** The French National Center for Scientific Research, France
18:40-19:05	C08: Pebble Fabrication by Emulsion Method using Solid Solution of Li2+xTiO3+y with Li2ZrO3 as Super Advanced Tritium Breeders	**Hoshino Tsuyoshi** National Institutes for Quantum and Radiological Science and Technology (QST), Japan
20:00	Dinner Social	

Tuesday May.10 Room D		
Session: Chemical Physics Droplet I Chair: Antonio Stocco		
15:30-15:55	D01: An Enhanced Droplet-based Microfluidic Immunochip with Low Limit of Detection and Small Sample Volume	**Wensyang Hsu** National Chiao Tung University, Taiwan
15:55-16:20	D02: The measurement of hydrodynamic resistance of microdroplets as an indicator for the quantitative PCR	**Sławomir Jakieła** Warsaw University of Life Sciences, Poland
16:20-16:45	D03: Spectroscopic and spectrometric interrogation of acoustically levitated droplets	**Jens Riedel** BAM Federal Institute for Materials Research and Testing, Germany
16:45-17:10	D04: Self-assembled materials based on Fluorinated Ionic Liquids	**Ana B. Pereiro** Instituto de Tecnologia Química e Biológica, Portugal
17:10-17:25	Session Break	
Session: General III Chair: Wensyang Hsu		
17:25-17:50	D05: Nanoindentation virus capsids in a molecular model	**Marek Cieplak** Polish Academy of Sciences, Poland
17:50-18:15	D06: Unidirectional Fluid Transport through Asymmetric Janus Membranes	**Xuelin Tian** Aalto University, Finland
18:15-18:40	D07: Liquid metal droplet shaping by high-intensity pulsed laser radiation	**Mikhail Krivokorytov** RnD-ISAN Troick, Russia
18:40-19:05	D08: Porous structure of emulsion-templated soft acoustic Mie resonators	**Artem Kovalenko** Université de Bordeaux, France
20:00	Dinner Social	

Wednesday May.11 Room B		
Session: Biological Droplets I Chair: Tobias Reichenbach		
10:00-10:25	B09: Ventilation and the Transport of Bioaerosols in Healthcare Environments	**Kevin Grosskopf** University of Nebraska, USA
10:25-10:50	B10: In vitro reconstitution of active cytoskeletal networks in cell-sized droplets	**Makito Miyazaki** Waseda University, Japan
10:50 -11:15	B11: Lipid droplet digestion in a microfluidic device	**Sébastien Marze** INRA, France
11:15-11:40	B12: Biosurfactants produced by micrrorganisms isolated from cloud waters: potential impact on cloud droplet formation	**Isabelle Canet** Clermont Université, France
11:40-12:00	Session Break	
Session: Biological Droplets II Chair: Makito Miyazaki		
12:00-12:25	B13: The involvement of lipid synthesis pathways in the regulation of milk fat globule size	**Nurit Argov-Argaman** The Hebrew University of Jerusalem, Israel
12:25-12:50	B14: Droplets in the inner ear: what can they reveal about active amplification of sound signals and its regulation by the brain?	**Tobias Reichenbach** Imperial College London, UK
12:50-13:15	B15: Single Cell Protein Counting in Addressable Droplet Microarrays	**Ali Salehi-Reyhani** Imperial College London，UK
13:40-15:30	Lunch Break	

Session: Solid/Nanoparticles I Chair: Noriharu Yodoshi		
15:30-15:55	B16: Nanoparticulate Organic Illuminants: Controlling Luminescence Color by Size of Particles	**Osamu Tsutsumi** Ritsumeikan University, Japan
15:55-16:20	B17: Droplets and Microfluidic Systems for Nanomaterial Synthesis	**Yegan Erdem** Bilkent University, Turkey
16:20-16:45	B18: Eco-friendly synthesis of copper nanoparticles with oxidation-free and regenerative properties	**Hideki Tanaka** Chuo University, Japan
16:45-17:10	B19: Synthesis of Porous Nanostructured V2O5 by a Novel Spray Pyrolysis and Its Electrochemical Performance for Lithium Rechargeable Batteries	**Izumi Taniguchi** Tokyo Institute of Technology, Japan
17:10-17:50	Poster	
Session: Solid/Nanoparticles II Chair: Yegan Erdem		
17:50-18:15	B20: Printing of ultra-fine silver patterns using nano-colloidal dispersion and controlling the stability of the colloidal dispersion	**Shunto Arai** The University of Tokyo, Japan
18:15-18:40	B21: Fabrication of Iron-based Amorphous Particles by Quenching of Mono-dispersed Droplets	**Noriharu Yodoshi** Tohoku University, Japan
18:40-19:05	B22: Self-assembly by multi-drop evaporation of graphene-oxide-platelets and carbon-nanotube droplets on a glass substrate for applications in energy and medicine	**Hatim Machrafi** Université de Liège, Belgium
20:00	Dinner Social	

Wednesday May.11 Room C		
Session: Droplet Dynamics IV Chair: Jun Zhang		
10:00-10:25	C09: A thin drop sliding down an inclined plate	**Eugene Benilov** University of Limerick, Ireland
10:25-10:50	C10: Modeling the liquid injection in a thermal plasma flow for nanomaterials spraying: atomization, mechanical deformation and evaporation	**Erick Meillot** CEA Le Ripault, France
10:50 -11:15	C11: Liquid droplet self-transportation on continuous radial topography gradients	**Ville Jokinen** Aalto University School of Chemical Technology, Finland
11:15-11:40	C12: Droplet Dynamics Relevant to the Aerosol Jet® Technology	**James Q Feng** Optomec Inc, USA
11:40-12:00	Session Break	
Session: Droplet Dynamics V Chair: Erick Meillot		
12:00-12:25	C13: Drop break-up in rotor stator mixers	**Fredrik Innings** Lund University, Sweden
12:25-12:50	C14: Controlling the Deposit Patterns of Evaporated Salt Water Nano Droplets Using Electric Fields	**Jun Zhang** University of Edinburgh, UK
12:50-13:15	C15: Dynamics of microdroplets over the surface of hot water	**Hiizu Nakanishi** Kyushu University, Japan
13:15-13:40	C16: Jet fragmentation induced by light for the controlled production of droplets at the microscale	**Jean-Pierre Delville** Université de Bordeaux/CNRS, France
13:40-15:30	Lunch Break	

Session: Theory and Simulation I Chair: Yuri Tarasevich		
15:30-15:55	C18: Recent Progress and Future Prospects of Two-Fluid AUSM in Multiphase Flow Simulations	**Keiichi Kitamura** Yokohama National University, Japan
15:55-16:20	C19: Drop dynamics: Impact on solids and coalescence	**Yulii Shikhmurzaev** Univesity of Birmingham, UK
16:20-16:45	C20: Distortion of a droplet moving through surrounding fluid	**Frank Smith** University College London, UK
17:10-17:50	Poster	
Session: Theory and Simulation II Chair: Keiichi Kitamura		
17:50-18:15	C21: Microscopic superfluidity in small bosonic helium-4 droplets	**David Farrelly** Utah State University, USA
18:15-18:40	C22: Capillarity theory at the nanoscale	**Luis González MacDowell** Universidad Complutense, Spain
18:40-19:05	C23: Mesoscopic lattice Boltzmann modelling of droplets and emulsions: theory and simulations	**Mauro Sbragaglia** University of Rome Tor Vergata, Italy
19:05-19:30	C24: Transition from Faceted to Dendritic Crystal Growth in Gelatin-NaCl Droplets	**Sujata Tarafdar** Jadavpur University, India
20:00	Dinner Social	

Wednesday May.11 Room D		
Session: General IV Chair: Chien-Pin Chen		
10:00-10:25	D09: Metal droplets smaller than 100 nm radius fabricated by femtosecond laser processing of thin films	**Yoshiki Nakata** Osaka University, Japan
10:25-10:50	D10: Metal droplet etching during semiconductor epitaxy - mechanisms and applications of self assembled nanoholes	**Christian Heyn** Institut für Nanostruktur- und Festkörperphysik (INF), Germany
10:50 -11:15	D11: Encapsulation and condensation in a droplet	**Hirotada Hirama** National Institute of Advanced Industrial Science and Technology, Japan
11:15-11:40	D12: Formation of Structured Materials in Unconventional Emulsions: Oil-in-Oil (O/O) and Water-in-Water (W/W) emulsions	**Jordi Esquena** Consejo Superior de Investigaciones Cientificas (CSIC), Spain
11:40-12:00	Session Break	
Session: General V Chair: Christian Heyn		
12:00-12:25	D13: Alignment of rigid elongated particles in sheared suspensions	**George Tegze** Wigner Research Centre for Physic, Hungary
12:25-12:50	D14: On Droplet Evaporation and Ignition using Unified Surrogate Fuels	**Chien-Pin Chen** Shanghai Jiao Tong University, China
12:50-13:15	D15: 3D tomography of triphasic flows using interferometric out-of-focus imaging	**Marc Brunel** Université de Rouen, France
13:15-13:40	D16: From mass detection in a droplet with partially wetted microresonators to partially wetted surfaces	**Egbert Oesterschulze/ Steffen Klingel** Technische Universität Kaiserslautern, Germany
14:05-15:30	Lunch Break	

Session: General VI Chair: Gladys Massiera		
15:30-15:55	D17: Self-propelled droplets for the transport of heat	**Marc Miscevic** Université Paul Sabatier, France
15:55-16:20	D18: Mathematical modelling of heating and evaporation of a spheroidal droplet	**Vladimir S Zubkov** University of Brighton, UK
16:20-16:45	D19: Lattice-Boltzmann simulations of two-phase flows in fibrous porous media	**Dario Maggiolo** Università degli Studi di Padova, Italy
16:45-17:10	D20: Lubricant-infused surfaces for water and ice repellency	**Henna Niemelä-Anttonen** Tampere University of Technology, Finland
17:10-17:50	Poster	
Session: General VII Chair: Vladimir S Zubkov		
17:50-18:15	D21: Single drop breakup experiments in turbulent flow	**Jannike Solsvik** Norwegian University of Science and Technology, Norway
18:15-18:40	D22: Continuous Droplet Interface Crossing Encapsulation: articial cells and capsules	**Gladys Massiera** University of Montpellier - CNRS, France
18:40-19:05	D23: Multi-nozzle Vacuum Sieve Tray to perform hydrogen isotope extraction from liquid metal	**Laëtitia Frances** Tritium Laboratory Karlsruhe, Germany
19:05-19:30	D24: Wireless biosensors based on Magnetoelastic Resonance and Giant Magnetoimpedance	**María Pilar Marín Palacios** Universidad Complutense de Madrid，Spain
20:00	Dinner Social	

Thursday May.12 Room B		
Session: General VIII Chair: Klaus Tauer		
10:00-10:25	B23: Chemical and physical droplet characterization using infrared thermography	**Christophe Pradere** Université Bordeaux 1, France
10:25-10:50	B24: Optically manipulated droplets and droplet lasers	**Pavel Zemanek** Institute of Scientific Instruments of the CAS, Czech Republic
10:50 -11:15	B25: Effect of laser parameters on droplet size and transfer in twin-wire indirect arc with AC	**Li-Wei Wang** Beijing University of Technology, China
11:15-11:40	B26: Continuous-wave laser generated microjets	**Carla Berrospe-Rodriguez** Instituto Nacional de Astrofísica Óptica y Electrónica, México
11:40-12:00	Session Break	
Session: Chemical Physics Droplet II Chair: Sławomir Jakiela		
12:00-12:25	B27: Viscous effects near the charged surface of the sphere immersed in a water stream	**Vytautas Daujotis** Vilnius University, Lithuania
12:25-12:50	B28: The Interface Engine – Permanent and Persisting Droplet Generation	**Klaus Tauer** Potsdam-Golm Science Park, Germany
12:50-13:15	B29: Microfluidic fabrication of Janus particles: wetting, surface forces and hydrodynamic	**Antonio Stocco** University of Montpellier - CNRS, France
13:15-13:40	B30: Programmable droplet processing device for bio/chemical analysis	**Fumihiro Sassa** Kyushu university, Japan
13:40-15:30	Lunch Break	

Session: Droplet Dynamics VI Chair: Oto Brzobohatý		
15:30-15:55	B31: Self-transport and Self-alignment of Microchips using Micro-droplets	**Bo Chang** Aalto University, Finland
15:55-16:20	B32: Evaporation of sessile droplets from a carbon nanotube film – analytical applications of the evaporation profile	**Akos Kukovecz** University of Szeged, Hungary
16:20-16:45	B33: Raindrop impact on sand: liquid-grain mixing suppresses droplet spreading	**Song-Chuan Zhao** University of Twente, the Netherlands
16:45-17:10	B34: Active and passive control of drop motion on patterned surfaces	**Giampaolo Mistura** Università di Padova, Italy
17:10-17:30	Session Break	
Session: Droplet Dynamics VII Chair: Akos Kukovecz		
17:30-17:55	B35: Dynamics of fluid droplets in a confined space	**Ko Okumura** Ochanomizu University, Japan
17:55-18:20	B36: Optical manipulation of solidified chiral droplets using dual-beam trap s	**Oto Brzobohatý** Institute of Scientific Instruments of the CAS, Czech Republic
18:20-18:45	B37: Generation of highly uniform micrometre-sized molten metal droplets	**Alexander F.R. Sanders** ETH Zurich, Switzerland
18:45-19:10	B38: Dynamics of microfluidic droplet under optically-induced tension gradient	**Masahiro Motosuke** Tokyo University of Science, Japan
19:10-19:35	B39: Application of the Rayleigh instability for a novel drop impact atomizer at low flow rates	**Mathias Etzold** FMP Technology GmbH, Germany
20:00	Dinner Social	

Thursday May.12 Room C		
Session: Droplets for Optical Applications I Chair: Daisuke Nakamura		
10:00-10:25	C25: Effects of liquid crystal droplets on the spatial frequency response of a holographic polymer-dispersed liquid crystal grating	**Yasuo Tomita** University of Electro-Communications, Japan
10:25-10:50	C26: High-yield optical energy conversion based on nanophotonic droplets	**Naoya Tate** Kyushu University, Japan
10:50 -11:15	C27: Light scattering properties of dewetting droplets of organic dyes	**Jakob Heier** Swiss Federal Laboratories for Materials Science and Technology, Switzerland
11:15-11:40	C28: Smart window devices using polymer-dispersed liquid crystal film	**Seok-Hwan Chung** DGIST, Korea
11:40-12:00	Session Break	
Session: Droplets for Optical Applications II Chair: Yasuo Tomita		
12:00-12:25	C29: fabrication of porphyrin Janus particles from Droplet template/oil-water interface	**Jingxia Wang** Technical Institute of Physics and Chemistry, CAS, China
12:25-12:50	C30: Bandgap engineering of semiconductor droplet for micro-cavity laser	**Daisuke Nakamura** Kyushu University, Japan
12:50-13:15	C31: The effect of the layer order on the mobility of mesogenic molecules confined in the liquid crystalline nano-micelles	**Shinji Bono** Department of Physics, Kyoto University, Japan
13:15-15:30	Lunch Break	

Session: Theory and Simulation III Chair: Luis González MacDowell		
15:30-15:55	C32: Modulation equations for strongly nonlinear oscillations of an incompressible viscous drop	**Warren Smith** University of Birmingham, UK
15:55-16:20	C33: A model of drying of colloidal droplet beneath a patterned mask	**Yuri Tarasevich** Astrakhan State University, Russia
16:20-16:45	C34: State-of-the-art continuum modeling of emulsion formation	**Gyula I. Toth** University of Bergen, Norway
16:45-17:10	C35: fluid/solid interface at the nanoscale	**Joel Puibasset** CNRS et Université d'Orléans, France
17:10-17:30	Session Break	
Session: Nanodroplet Chair: Warren Smith		
17:30-17:55	C36: Development of an Elongational-Flow Microprocess for the Production of Size-Controlled Nanoemulsions	**Christophe A. Serra** University of Strasbourg, France
17:55-18:20	C37: Does nano-roughness promote wetting?	**Alexandr Malijevsky** Academy of Sciences, Czech Republic
18:20-18:45	C38: Nanoemulsion as flowback aid in tight gas fracturing	**Jiang Yang** Xi'an Petroleum University, China
20:00	Dinner Social	

Thursday May.12 Room D		
Session: Droplet Dynamics VIII Chair: Alexander F.R. Sanders		
10:00-10:25	D25: Three-dimensional large eddy simulation of liquid breakup using the VOF method	**Jianliang Xu** East China University of Science and Technology
10:25-10:50	D26: Multiphase Dynamics in Rapid Vaporization of an Immiscible Droplet Rising in a Water Column – from Equilibrium to Explosive Boiling	**Herman D. Haustein** Tel-Aviv University, Israel
10:50 -11:15	D27: Coalescence and breakup of two drops in a continuous air jet flow	**Hui Zhao** East China University of Science and Technology
11:15-11:40	D28: Effect of surfactant on secondary atomization	**Haifeng Liu** East China University of Science and Technology
11:40-12:00	Session Break	
Session: General IX Chair: Naoya Tate		
12:00-12:25	D29: Collective Excitations of Helium Droplets Observed via Molecular Spectroscopy	**Vladimir Hizhnyakov** University of Tartu, Estonia
12:25-12:50	D30: Wetting and elasto-plasticity based sculpture of liquid marbles	**Pingcheng Zuo** China University of Petroleum, China
12:50-13:15	D31: Surface-inactive effect induced by adding nonionic surfactants on a mixture of water and organic solvent	**Koji Fukao** Ritsumeikan University, Japan
13:15-15:30	Lunch Break	

Session: General X Chair: Pingcheng Zuo		
15：30-15：55	D32: Observation of Whispering Gallery Modes in Elastic Light Scattering from Microdroplets Optically Trapped in a Microfluidic Channel	**Suman Anand** Koç University, Turkey
15:55-16:20	D33: Near-post Meniscus-induced Migration and Assembly of Bubbles	**Shanpeng Li** China University of Petroleum, China
16:20-16:45	D34: Lasing effects in microvolumetric droplets pumped by laser beams	**Mihai Boni** Plasma and Radiation Physics, Romania
17:10-17:30	Session Break	

Wednesday May.11 17:10-17:50	
Poster Session	
P1: Biocompatibility Behavior of Calcium Phosphate Nanoparticles Deposited on Steel 216LVM	**Willian Aperador Chaparro** Universidad Militar Nueva Granada, Colombia
P2: Droplet is a Reactor that allows Organizing Particles using Leidenfrot Effect Technique	**Stéphane Dorbolo** Université de Liège, Belgium
P3: Microfluidics Lap-on-chip devices to generate and trap monodisperse micro-sized oil droplets for digestion study	**Hoang Thanh Nguyen** Biopolymères Interactions Assemblages, France
P4: Directional adhesion of mosquito's legs for water taking-off	**Xiangqing Kong** Liaoning University of Technology, China
P5: Light scattering of doped 3He liquid on Fermi excitations	**Vadim Boltrushko** Institute of Physics, University of Tartu, Estonia
P6: Rapid Prototyping of Flow Focusing Device for Droplet Formation Using Pipette Tip and Glass Capillary	**Toru Torii** University of Tokyo