

Conference Program



MESSAGE FROM THE CHAIRMEN

We are pleased to welcome you to the 11th pamir conference in the city of Reims, an Art and History City with its UNESCO World Heritage sites.

The topics of the Conference are the same of the past editions, but together with the usual topics there are some that have been only recently introduced, such as the thermoacoustic effect, the born-again interest for the MHD power generation and the magneto-electrochemistry. The introduction of new topics at each edition of this conference is the signal that MHD is still a child science and it needs to grow. Most part of processes, devices and applications that are presented in this conference are futuristic, but this is the nature of MagnetoHydroDynamics, which very often deals with unexplored territories of science and technology. It is aim of this edition of the pamir to maintain this tradition, and to favour new advances and transnational collaborations in this fascinating field of research.

We are looking forward to meeting you in Reims during pamir 2019 and to sharing a most pleasant, interesting and fruitful conference.

Conference is jointly organized by : SIMaP (Grenoble University), France and LISM (University of Reims Champagne-Ardenne), France

Chairmen : J.P. Chopart, France ; A. Alemany, France ; A. L. Daltin, France

Co-Chairmen : L. Buligins, Latvia ; G. Gerbeth, Germany ; A. Montisci, Italy ; C. Latgé

Organizing Committee : A.L. Daltin, A. Alemany, J.P. Chopart, B. Collovati, J.M. Patat, F. Lazar, M. Stubner

Secretaries : B. Collovati, France

PRINCIPAL TOPICS

<p>A - Basic MHD :</p> <p>A.1 Convection and heat transfer in MHD</p> <p>A.2 Dynamo</p> <p>A.3 Instability and transition to turbulence</p> <p>A.4 Jets and surface waves</p> <p>A.5 Modeling of MHD turbulence</p> <p>A.6 Numerical and experimental methods</p> <p>A.7 Strong magnetic field</p> <p>A.8 Novel MHD problems and applications</p> <p>· B – Thermoacoustic : B.2 Modelling and numerical simulation 2D and 3D</p> <p>B.5 Engines for refrigeration, air conditioning electrical power</p> <p>B.6 High and low heat source temperature and power scaling</p> <p>B.7 Thermo acoustics for space missions (e.g. propulsion, cooling, etc.)</p> <p>C - Space technologies :</p> <p>C.2 Containment of liquid metals</p> <p>C.10 MHD thrusters and solar sails</p>	<p>D - Liquid metal technologies for coolant applications :</p> <p>D.1 MHD pumps and Flow Control</p> <p>D.2 Measuring techniques for liquid metal coolants</p> <p>D.3 Corrosion by liquid metal</p> <p>D.4 Liquid metal mixing</p> <p>E - Applied MHD for material application :</p> <p>E.1 Metallurgical applications</p> <p>E.2 Magneto-electrolysis</p> <p>E.3 MHD in crystal growth</p> <p>E.4 Electromagnetic processing of material</p> <p>E.6 Magneto static</p> <p>F – Ferrofluids : F.1 Magnetic liquids</p> <p>F.2 Electrohydrodynamics</p> <p>G - MHD energy conversion:</p> <p>G.1 Gas-phase generators</p>
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SCIENTIFIC COMMITTEE

Alemany, A. *France*
Al-Radi, M. *France*
Aogaki, R. *Japan*
Blums, E. *Latvia*
Bouabdallah, A. *Algeria*
Buligins, L. *Latvia*
Cagnoud, A. *France*
Carcangiu, S. *Italy*
Cebers, A. *Latvia*
Chopart, J.P. *France*
Cuevas, S. *Mexico*

Daltin, A.L. *France*
Daviaud, F. *France*
Freibergs, J. *Latvia*
Frick, P. *Russia*
Gailitis, A. *Latvia*
Gerbeth, G. *Germany*
Kharicha A. *Austria*
Latgé, C. *France*
Martemianov, S. *France*
Mikhailovich, B. *Israel*
Mistrangelo, C. *Germany*

Mogi, I. *Japan*
Molokov, S. *Germany*
Mond, M. *Israel*
Montisci, A. *Italy*
Mutschke, G. *Germany*
Odenbach, S. *Germany*
Roux, J.P. *France*
Sellier, A. *France*
Skorvanek, I. *Slovakia*
Sviridov V.G. *Russia*
Uhlemann, M. *Germany*
Zabinski, P. *Poland*

WORKING LANGUAGE

The working language of the conference is English and will be used for all printed matters.

CONFERENCE SITE

The conference will be held at Reims Congress Centre (Centre des Congrès). It locates near Reims station. The Congress Centre is ideally located in the city centre, a short walk away from the TGV Reims centre station, the main hotels and the vast pedestrian precinct.

Congress center adress : Centre des congrès, 12 Boulevard du Général Leclerc, 51100 Reims, FRANCE

Congress center phone : + 33 (0)3 26 77 44 44

REGISTRATION DESK

All attendees must register upon arrival and receive a badge in order to attend any conference activities. Each registrant will receive the Conference Proceedings in a memory stick at the Registration Desk. The location of the Registration Desk and opening hours are found below.

Date Time Place

Sunday, 30 June 18:00 - 20:00 Hotel, B&B, 4 rue André Pingat (300 m from Reims Railway station)

Monday, 1 July 09:00 - 12:00 Reims Congress Center

Tuesday, 2 July 09:00 - 12:00 Reims Congress Center

Wednesday, 3 July 09:00 - 12:00 Reims Congress Center

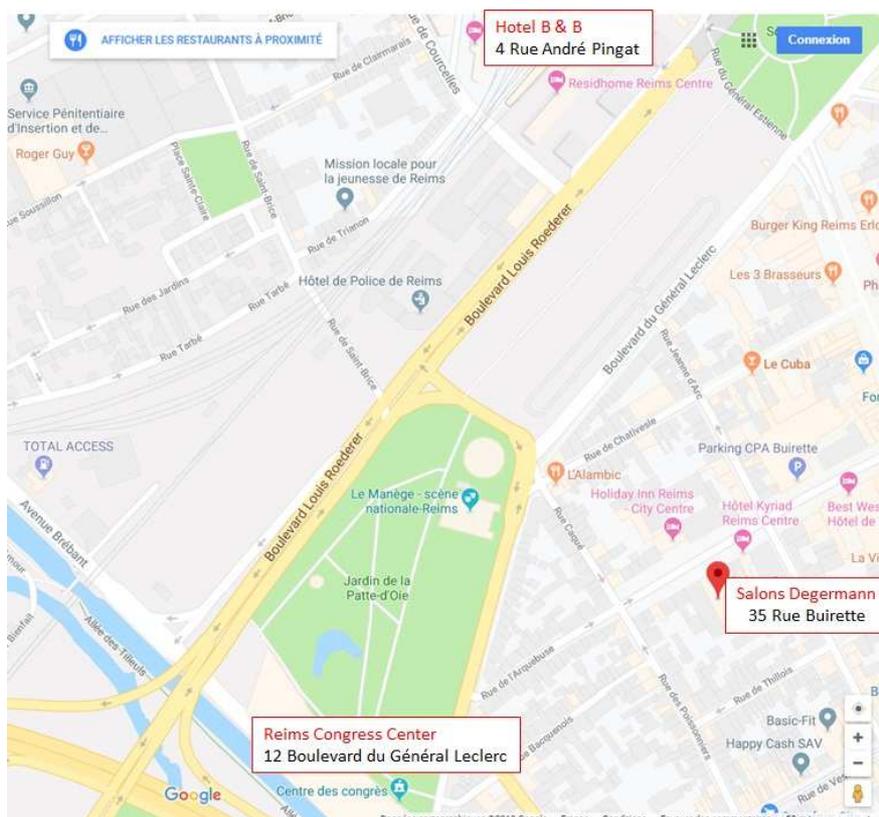
Thursday, 4 July 09:00 - 12:00 Reims Congress Center

WELCOME COCKTAIL

Sunday 30 June 18:00 - 20:00 at Hotel B&B, 4 rue André Pingat, Reims.

GALA DINNER

Tuesday 2 July 20:00-23:00 at Salons Degermann, 35 rue Buirette, Reims.



PAMIR 2019 ORAL SESSIONS

Monday 1st, July				
Session 1			Session 2	
09h00	Opening ceremony			
09h40	A. Potherat, United Kingdom : Rotating magnetoconvection from laboratory to planetary cores			
10h20			A5	Turbulent Rayleigh-Benard Convection in Strong Vertical Magnetic Field, <i>Zikanov Oleg, USA</i>
10h40	Break			
11h00	A1	MHD Taylor-Couette Flow with Insulating Walls at Low Magnetic Reynolds Number <i>Kolesnikov Yuri, Germany</i>	A5	3D structures and turbulence in MHD flows with a small magnetic Reynolds number. <i>Golbraikh Ephim, Israel</i>
11h20	A1	Magnetoconvection in a vertical pipe with a liquid metal [...] magnetic field, <i>Listratov Yaroslav, Russia</i>	A5	Inverse and direct energy cascades in 3D MHD turbulence at low Rm <i>Potherat Alban, United Kingdom</i>
11h40	A1	MHD and heat transfer analyses in PbLi radial channels for the EUROfusion WCLL breeding blanket, <i>Urgorri Fernando, Spain</i>	A5	Grid-induced MHD turbulence in a spin-down flow of liquid sodium <i>Frick Peter, Russia</i>
12h00	A1	Low Prandtl Number Rayleigh-Bénard Convection in a vertical Magnetic Field <i>Schindler Felix, Germany</i>	A5	Effect of a Static Magnetic Field on Different Turbulent Scales <i>Sukoriansky Semion, Israel</i>
12h20	Lunch			
14h00	F. Stefani, Germany : On self-created and self-creating dynamos			
14h40	A1	Numerical study of MHD liquid metal flows in ducts for heat transfer [...], <i>Solano-Olivares Veronica, Mexico</i>	A5	Decay of turbulence in a duct with transverse magnetic field <i>Zikanov Oleg, USA</i>
15h00	A1	Effect of a localized Lorentz force on natural convection thermal plume within a square cavity, <i>Román José, Mexico</i>	A2	The DRESDYN Precession Dynamo Experiment <i>Pizzi Federico, Germany</i>
15h20	A1	Convection Caused Symmetry Breaking of Azimuthal Magnetorotational [...]Taylor Couette Flow, <i>Seilmayer Martin, Germany</i>	A2	A Model for Tidal Synchronization and Modulation of the Solar Dynamo <i>Stefani Frank, Germany</i>
15h40	A3	A new type of double-diffusive helical magnetorotational [...] <i>Mamatsashvili George, Denmark</i>	A2	Model with vertical structure for galaxy dynamo and star formation <i>Mikhailov Evgeny, Russia</i>
16h00	A3	Instabilities in Mixed Convection at Moderate and Strong Magnetic Fields <i>Belyaev Ivan, Russia</i>	A2	Resonances In Simple Models Of Stellar Dynamos <i>Sokoloff Dmitry, Russia</i>
16h20	Break			
16h40	A3	Electrovortex liquid metal flows in cells with localized current supply <i>Kolesnichenko Iliia, Russia</i>	A2	Modelling of Transition Layers in Spiral Galaxies <i>Tatiana Khasaeva, Russia</i>
17h00	A3	Instability of Swirling Electrolyte Flows Driven Electromagnetically <i>Cuevas Sergio, Mexico</i>	A6	Surface Viscosimetry of Molten Aluminum: The Interesting Role of MHD. <i>Patouillet Kévin, France</i>
17h20	A4	Electric current distribution during electromagnetic brake in continuous casting <i>Kharicha Abdellah Austria</i>	A6	Numerical simulation and experimental analysis of the dynamic behavior of ternary metal alloy (Ga-In-Sn) flow [...] <i>Hiba Brahim, Algeria</i>
17h40	A4	Counter-moving jets in self similar electrovortex flow between two planes <i>Chudnovsky Alexander, Latvia</i>	A6	Numerical Study of MHD Thin-film Flows for Plasma Facing Components, <i>Siriano Simone, Italia</i>
18h30	Meeting with Algerian researchers			

Tuesday 2nd, July				
Session 1			Session 2	
09h00	A. Gagnoud, France : Numerical modelling of electromagnetic processes			
09h40	E1	Numerical Modelling and Optimization of the Electrode Induction Melting for Inert Gas Atomization (EIGA) <i>Spitans Sergejs, Germany</i>	E4	Property-Control in Rapidly Quenched FINEMET Ribbons by Layering and Magnetic Field Processing <i>Svec Peter, Slovakia</i>
10h00	E1	Argon Bubble Flow in Liquid Gallium in External Magnetic Field <i>Birjukovs Mihails, Latvia</i>	E4	Experiments on surface wave excitation by combined AC and DC magnetic field <i>Milgravis Mikus, Latvia</i>
10h20	E1	Molten Silicon Impurity Diffusion Rate Enhancement via Generation of Surface Waves <i>Zageris Girts, Latvia</i>	E4	Distribution of diamagnetic Cu, ferromagnetic Fe and paramagnetic Ti in Al based alloy solidified in constant magnetic field <i>Dubodelov Viktor, Ukraine</i>
10h40	Break			
11h00	E1	The influence of orifice types on the flow structure of a bubble-driven [...] <i>Richter Thomas, Germany</i>	E4	Liquid Metal Droplet Flow Affected by a Traveling Magnetic Field <i>Karcher Christian, Germany</i>
11h20	E1	Linear Permanent Magnet Liquid Metal Pump <i>Kalvans Matiss, Latvia</i>	E4	Experimental study of the Effect of Intermittent Electromagnetic Stirring On The Solidification Of Sn-10wt.%Pb alloy. <i>Zaidat Kader, France</i>
11h40	E1	A numerical method for electromagnetic and chemical coupling in liquid metal flow [...] <i>Fehling Tristan, Germany</i>	E4	Cavitation-driven dispersion of particles in liquid metal melts using contactless electromagnetic vibrations <i>Pericleous Koulis, United Kingdom</i>
12h00	E1	Investigation of Particle Dynamics and Solidification in Two Phase System by Neutron Radiography <i>Baranovskis Reinis, Latvia</i>	E4	Electromagnetic Contactless Method for Metal Matrix Composite Manufacturing <i>Kaldre Imants, Latvia</i>
12h20	Lunch			
14h00	C. Mistrangelo, Germany : Considerations on magneto-convective flows in model geometries relevant for fusion applications.			
14h40	E1	Titanium reduction process measurement system <i>Khalilov Ruslan, Russia</i>	E4	Numerical and experimental investigation of new skull melting process for continuous pouring of oxides <i>Nacke Bernard, Germany</i>
15h00	E1	Effect of a rotating magnetic field on grain refinement of directionally solidified Al-10wt%Cu alloys <i>Zimmermann Gerhard, Germany</i>	A7	Creeping Axisymmetric MHD Flow About A Spherical Bubble Translating Parallel With A Uniform Ambient Magnetic Field <i>Sellier Antoine, France</i>
15h20	E1	Optimizing the refining process of metallurgical materials by controlling the slag refining [...] <i>Nouri Abdallah, Algeria</i>	A7	Behavior of materials in feeble magnetic fluid under high magnetic fields <i>Hirota Noriyuki, Japan</i>
15h40	E6	Effects of Magnetic Field Annealing on Soft Magnetic Properties and GMI Sensor Characteristics of Co-rich HITPERM Nanocrystalline Alloys <i>Skorvanek Ivan, Slovakia</i>	A6	Numerical characterization of liquid metal MHD flow in electro-conductive thick orifices with asymmetric contraction <i>Melchiorri Lorenzo, Italia</i>
16h00	E6	Mean axisymmetric magnetohydrodynamics duct flows <i>Poyé Alexandre, France</i>		
16h20	Break			
16h40	Poster session 1			
18h30	Meeting of the MHD society			
20h00	Gala dinner			

Wednesday 3rd, July				
Session 1			Session 2	
09h00	G.Mutschke, Germany : Study of the Marangoni effect during electrolytic gas evolution			
09h40	E2	Magnetic Field Assisted Electrodeposition of Co-Ru Nanorods for Water Splitting Reaction <i>Zabinski Piotr, Poland</i>	A6	Numerical Simulation of Turbulent Flow in Electromagnetically Levitated Metallic Droplet <i>Budenkova Olga, France</i>
10h00	E2	Analysis of mass transport near a conically shaped electrode during electrodeposition assisted by a magnetic field <i>Marinero Giovanni, Germany</i>	A6	Numerical Investigation of Liquid Metal MHD Flow in Rectangular Channels under Inclined Magnetic Fields for Fusion Relevant Parameters <i>Klüber Viktor, Germany</i>
10h20	E2	Combining magnetic forces for contactless manipulation of fluids in microelectrode-microfluidic systems <i>Uhlemann Marguitta, Germany</i>	A6	Experimental Investigation of Liquid Metal Pipe Flow in a Strong Non-Uniform Magnetic Field <i>Bühler Leo, Germany</i>
10h40	Break			
11h00	E2	Collision Process of Ionic Vacancy in MHD Flow <i>Aogaki Ryoichi, Japan</i>		
11h20	E2	Breaking of Odd Magnetic-Field Dependence of Surface Chirality in Magnetoelectrolysis <i>Mogi Iwao, Japan</i>	A6	Contactless inductive flow tomography for a Rayleigh-Bénard setup with aspect ratio 0.5 <i>Wondrak Thomas, Germany</i>
11h40	E2	Thin films of doped Cu ₂ O electrodeposited under a homogeneous magnetic field <i>Stübner Mathilde, France</i>	A6	Neutron Transmission Imaging Studies on Particle-Laden Liquid Metal Flow Driven by a Disk-Type Rotating Permanent Magnet Induction Pump <i>Lappan Tobias, Germany</i>
12h00	E2	Zn-Mn alloy electrodeposition under magnetic field <i>Allam Lamia, France</i>	A6	Experimental investigation of weld pool flow under external DC magnetic field <i>Kaldre Imants, Latvia</i>
12h20	Lunch			
14H00	Excursion			

Thursday 4th, July				
Session 1		Session 2		
09h00	L. Martinelli , France : Corrosion by liquid lead alloys			
09h40	D1	MHD instability of a high flowrate EM pump <i>Vitry Sylvain, France</i>	D3	Teaching Sodium Technology & physico-chemistry at Sodium School and within the frame of European Union Projects. <i>Christian Latge, France</i>
10h00	D1	MHD amplification of unstable modes by an electromagnetic induction pump <i>Delannoy Yves, France</i>	D3	Weak magnetic field effect on the corrosion behavior of AA 6060 aluminum section wire, in seawater <i>Slimani Rabeh, Algeria</i>
10h20	D1	Further Development of TESLA-EMP Facility for Experimental Investigation [...] <i>Goldsteins Linards, Latvia</i>	D4	Experimental Study of Heat Transfer Enhancement in Liquid Metal by Rotating Magnetic Field <i>Shukrun Tzahi, Israel</i>
10h40	Break			
11h00	D1	Experimental investigations of the high temperature sodium facility SOLTEC for corrosion analyses <i>Onea Alexandru, Germany</i>	E3	On the Thermodynamic Approach of the Crystal Growth <i>Ahcene Bouabdallah, Algeria</i>
11h20	D1	Experimental and Numerical study of Low Frequency pulsations appearance in PEMDyn ElectroMagnetic pump <i>Martin Lopez Elena, France</i>	E3	Melt Flow in Silicon Crystal Growth From a Granulate Crucible with High Frequency Induction Heating <i>Dadzis Kaspars, Germany</i>
11h40	D2	« Zero » Magnetic Field Sensor for Liquid Metal Flow Measurement <i>Buligins Leonids, Latvia</i>	E3	New cold crucible for single crystal growth <i>Zaidat Kader, France</i>
12h00	D2	Simultaneous Determination of Flow Velocity and Electrical Conductivity of a Liquid Metal using [...] <i>Krauter Nico, Germany</i>	E3	The Effect of Magnetic Fields on Freckle Defect Formation During Directional Solidification of GaIn Alloy <i>Kao Andrew, United Kingdom</i>
12h20	Lunch			
14h00	A. Montisci , Italia : Thermo-electrical conversion combining thermoacoustic effect with MHD			
14h40	F1	On the dynamics of the magnetic separation of rare earth ions from solutions <i>Lei Zhe, Germany</i>	B2	Simulation of large-scale thermoacoustic engines <i>Mousa Mohamed, Egypt</i>
15h00	F1	Application of Ferrofluids in Electronic Waste Recycling <i>Sints Viesturs, Latvia</i>	B5	Thermoacoustic stirling heat engine with a phase-adjuster <i>Dhuchakallaya Isares, Thailand</i>
15h20	F2	Electric actuation of liquid menisci trapped along a capillary array <i>Cardin Nicolas, France</i>	B5	FEM Analysis of a coupled Thermoacoustic-MGD Generator <i>Montisci Augusto, Italia</i>
15h40	F2	Effect of an AC Electric Field on a Dielectric Liquid Submitted to a Temperature Gradient <i>Jawichian Alex, France</i>	B5	A Novel Thermoacoustic Solar Cooler Design <i>Konaina Tareq ; Syria.</i>
16h00	G1	Gas-phase generators <i>Montisci Augusto, Italia</i>	B6	Experimental InvestigationN of sound parameters in spaceTRIPS facility of thermoacoustic-to MHD energy convertor <i>Artūrs Brēķis, Latvia</i>
16h20	Break			
16h40	Poster session 2			

Friday 5th, July				
Session 1			Session 2	
09h00	N. Hirota, Japan : Behavior of materials in feeble magnetic fluid under high magnetic fields			
09h40	C10	Mini-magnetospheric plasma propulsion (M2P2) : a Non Dimensional FEM Study <i>Carcangiu Sara, Italia</i>	A8	New magnetohydrodynamic instability driven by electric current in a co-linear magnetic field <i>Priede Janis, United Kingdom</i>
10h00	C2	Numerical and experimental investigations of temperature and pressure distributions in an AMTEC test cell <i>Onea Alexandru, Germany</i>	A7	High Magnetic Fields for MHD <i>Debray Francois, France</i>
10h20			A8	Fluid Flow and Transport Phenomena in Liquid Metal Batteries <i>Weier Tom, Germany</i>
11h00	Break			
11h20	Poster price and Closing ceremony			

PAMIR 2019 POSTER SESSIONS

Poster Session 1				
A1	01	Chen Lu	Fluid Flow and Heat Transfer of Radiation Participating MHD in Enclosed Cavities,	
A1	02	Lecheheb Sabrina	Effect of aspect ratio on steady liquid metal through the Graëtz flow system in MHD	
A1	03	Pavlovs Sergejs	Numerical Modelling of Boron Removal from Silicon with Oxidizing Gas Jet	
A1	04	Ibrahim Sari	3 D numerical simulation of pure tin solidification under forced convection	
A2	05	Avalos Raul	The Disc Dynamo Experiment with Liquid Metal Contacts	
A2	06	Mond Michael	Intermittency and multifractality of growth of weak magnetic fields in compressible turbulence	
A3	07	Belyaev Ivan	Temperature Fluctuations in a Liquid Metal Flow in a Pipe Affected by a Strong Transverse Magnetic Field	
A3	08	Dzelme Valters	Thin liquid metal layer instability in AC magnetic field	
A3	09	Garcia Gonzalez Ferran	Experiments and simulations on the magnetized spherical Couette problem	
A3	10	Knaepen Bernard	Optimal perturbations and transition of a boundary layer flow under the influence of a spanwise magnetic field	
A3	11	Kolesnikov Yuri	Experimental Study of Liquid Metal Film Flow in a Strong Streamwise Magnetic Field	
A3	12	Teplyakov Igor	Stability Analysis of the Electro vortex Flow in the External Magnetic Field	
A5	13	Barami Eli	Turbulence Anisotropization by Static Magnetic Field	
A5	14	Collu Silvia Maria	The wake around a cylinder of any magnetic permeability subjected to an applied magnetic field aligned with the flow	
A5	15	Golbraikh Ephim	3D structures and turbulence in MHD flows with a small magnetic Reynolds number.	
A6	16	Arslan Sinem	FDM Solution of MHD Duct Flow with Slipping and Variably Conducting Walls	
A6	17	Belyaev Ivan	Numerical and Experimental Study of Molten Salt Mixed Convection in the Presence of Magnetic Field	
A6	18	Buceniaks Imants	Design concept of induction rotating permanent magnets flow meter with self calibration possibility	
A6	19	Figuroa Aldo	Flow past a Lorentz driven dipole flow	
A6	20	Lima Joao	MHD Flow in a Backward-facing Step: a Hybrid Solution Approach	
A6	21	Mikhailovich Boris	On Turbulence Inhomogeneity in Rotating Magnetic Field Driven Flow	
A6	22	Politis Gerasimos	Strongly nonlinear shallow-water model of magnetohydrodynamically coupled interfacial gravity waves	
A6	23	Tigrine Zahia	3D Computational Study of Aspect Ratio Effect on MHD Liquid Metal Flow in a Rectangular Duct	

A6	24	Zibold Alexander	Three-dimensional Hydrodynamical Structures Generated in a Finite-length [...]
A8	25	Dubodelov Viktor	MHD-Plasma Processing of Aluminum Melts for New Generation of Metallic Materials
A8	26	Potherat Alban	Experimental investigation of the transition to turbulence in the Plane Magnetohydrodynamic Couette flow
A8	27	Resagk Christian	Interface deflections induced by local magnetic fields in a liquid metal battery model experiment
B5	28	Alkhwildy Ekhlas	50 Watt Thermo acoustic Prime mover Design Manufacturing and Testing
B5	29	Laghouati Yassine	Energetical optimization in thermoacoustic engine coupled to an MHD generator

Poster session 2

C3	30	Upnere Sabine	Monitoring of Flow-Induced Vibration in Rods Bundle
D1	31	Bolotin Kirill	Numerical Design Optimization of Annular Linear Induction Pump
D1	32	Kwak Jaesik	Reduction of End Effect of Annular Linear Induction Magnetohydrodynamic Pump for Prototype Generation-IV Sodium-cooled Fast Reactor
D2	33	Guichou Rafael	Eddy Current Flowmeter for detection of bubble in liquid metal : theoretical and experimental study
D2	34	Belyaev Ivan	Probe methods of local measurements in non-isothermal turbulent liquid metal flow
D2	35	Frédéric Rey	Electromagnetic characterization of liquid corium in induction heated cold crucible
D4	36	Personnetaz Paolo	Mass Transport in the Positive Electrode of a Liquid Metal Battery
E1	37	Freibergs Janis	Slag Motion in Electroslag Remelting Used for Cadmium Reduction from Recycled Batteries
E1	38	Lyu Ze	Experimental study of Lorentz force velocimetry for bubble detection under ambient magnetic field
E1	39	Baranovskis Reinis	Numerical and Experimental Investigation of Permanent Magnet Driven Liquid Metal Flows
E1	40	Liu Ke	Electro-Vortex Flow in a Cylindrical Container
E1	41	Dubodelov Viktor	Complex of MHD-Devices for Continuous Casting of Metals
E1	42	Siraev Ramil	Dynamics of the Crystallization Front of a Liquid Metal and Heat Transfer in a Cylindrical Crucible Under the Action of Electromagnetic Exposure
E1	43	Berenis Didzis	Analytical solution of electromagnetic force and numerical calculation of the flow in a conducting cylindrical ring due to a rotating permanent magnet
E1	44	Khripchenko Stanislav	Effect of reverse regimes of MHD stirring on the structure of crystallizing aluminum alloy in crucibles of circular and square cross sections
E2	45	Chopart Jean-Paul	Temperature effect on Zn-Ni alloy electrodeposition under magnetic field
E2	46	Daltin Anne-Lise	Modifying electrodeposited calcium phosphate coating with high magnetic field
E2	47	Kolczyk-Siedlecka Karolina	ELECTROLESS METALLIZATION OF 3D PRINTS BY COBALT AND NICKEL COATINGS IN MAGNETIC FIELD
E2	48	Kutyża Dawid	MODIFICATION OF STRUCTURE AND ELECTROCATALYTIC PROPERTIES OF NI - RU ALLOYS OBTAINED BY MAGNETOELECTRODEPOSITION
E2	49	Mutschke Gerd	Study of mixing enhanced by a magnetic field in a microfluidic channel
E2	50	Huang Mengyuan	Numerical simulation of mass transfer and convection near conically shaped electrodes under the influence of a magnetic field
E3	51	Dubovikova Nataliia	Electromagnetic Effects on the Salt Crystallization Process within the Turbulent Pipe Flow
E3	52	Dropka Natasha	Oxygen Control in Cz Silicon Growth by Double Frequency Travelling Magnetic Fields
E4	53	Dubodelov Viktor	Production of special dispersion-strengthened Cu-based alloys at peculiar MHD effects in induction crucible furnaces
E4	54	Mikhailovich Boris	Liquid Metal Flow in a Cylinder Driven by Near-Bottom Rotating Magnetic Field
F4	55	Maiorov Mikhail	Influence of Electrical Discharge Parameters in Metallic Iron Powder on the Properties of the Resulting Magnetic Nanoparticles
F4	56	Kronkalns Gunars	Preparation and Properties of Gd/Pd fine Particle Compound

G2	57	Perez-Orozco Adrian	Experimental Prototype of an AC MHD generator
G2	58	Cuevas Sergio	Liquid Metal MHD Generator for Wave Energy Conversion
G4	59	Lee Geunhyeong	The Variable Optimization of MHD Generator with Electric Output of 10-kW

ACCOMPANYING PERSONS

Registered accompanying persons have Welcome Cocktail included. Social events are also scheduled and require preregistration in advance.

COFFEE

Refreshments and coffee or tea will be served twice a day at the “Foyer haut” Level 2 of the Congress centre, for registered attendees in order to encourage the interaction during the breaks and the poster sessions.

LUNCHES

Daily Lunches are provided by the organization to the registered attendees at the “Foyer haut” Level 2 of the Congress centre.

ORAL AND POSTER SESSIONS

Papers will be presented and discussed either orally or in poster sessions.

All oral papers shall be presented exclusively through a computer projector system. The presentation must be in MS Power Point format and should be delivered to the Local Organizing Committee at least 24 hours before the corresponding oral presentation. Make sure to get a back-up file available. In general, each presentation is expected to be 15 minutes long or shorter and to be followed by a 3-5 minutes-long discussion. When you want to use other kinds of software, please contact the organizers well in advance. A PC will be available in each conference room.

Two poster sessions will be held at the “Foyer haut” Level 2 of the Congress centre on Tuesday (Poster session I) and Thursday (Poster session II) from 16:040 to 18:00, respectively. No other sessions are scheduled in parallel. Each poster must be written in English and must fit within a 120 cm (height) X 90 cm (width) A0 format. Presenters are requested to be ready to put up posters on an allocated space recognized by the paper number during lunchtime of the day of presentation.

Each presenter is expected to be present with his/her presentation during the Poster Presentation Session to explain his/her presentation and answer attendees' questions. It is also expected that presenters put the title, authors name, affiliation and contact information on the poster. Posters have to be pasted on the board with the material that will be provided by the organization; adhesive tape, drawing pins, etc. are strictly forbidden. Presenters are responsible for placing their own posters and for taking them down by the end