

**7th pamir International Conference
Fundamental and Applied MHD
Giens, France, September 8-12, 2008**

CONFERENCE PROGRAM

Monday, September 8

8h30-9h10 Opening ceremony

Basic MHD Chairman : René Moreau (France)	
9h10-9h50	M. Abdou - USA <i>Invited lecture : The path toward magnetic fusion energy demonstration and the role of ITER</i>
9h50-10h10	F. Stefani, G. Gerbeth, Th. Gundrum, J. Szklarski <i>Liquid metal experiments on the helical magnetorotational instability</i>
10h10-10h30	David W. Hughes <i>Action in Turbulent Convection</i>

10h30-11h00 Coffee break

Instability Chairman : Ahcene Bouabdaellah (Algeria)		Liquid metal technology and energy Chairman : Andris Bojarevics (Latvia)
11h00-11h20	Ait Abderrahmane H and Vatistas G.H. <i>Effects of longitudinal magnetic fields and transversal electrical field on the stability of thin layer of electrically conducting fluid flowing down an inclined plane</i>	Alessandro Liberati, T.Murakami, Y.Okuno, and H.Yamasaki <i>Numerical simulation of MHD flow and Heat transfer in the disk MHD generator of the closed loop experimental facility at Tokyo Tech.</i>
11h20-11h40	T. Boeck, D. Krasnov, M. Rossi, O. Zikanov <i>Optimal linear growth in MHD duct flow</i>	E. Baake, M. Langejürgen, M. Kirpo, A. Jakovics <i>Analysis of transient heat and mass exchange in induction channel furnaces using LES</i>
11h40-12h00	L. Bühler and S. Horanyi <i>Experimental investigation on the stability of MHD flows in a conducting flat rectangular duct for large Hartmann numbers</i>	Denisov S.A., Dolgikh V.M., Kolesnichenko I.V., Khripchenko S.Yu. <i>Pumping effect in a plane MHD-channel generated by electrovortex flow</i>
12h00-12h20	C. Zhang, S. Eckert, G. Gerbeth <i>Bubble-driven liquid metal flows influenced by miscellaneous magnetic fields</i>	O. Zikanov, D. Krasnov, T.Boeck, and A. Thess <i>Large-scale intermittency of liquid-metal channel flow in a magnetic field</i>
12h20-12h40	I.Kolesnichenko, S.Khripchenko, D.Buchenau, G.Gerbeth <i>Non-stationary electro-vortex flows in a long shallow channel with conducting fluid</i>	S. Smolentsev , R. Moreau, M. Abdou <i>Study of MHD mixed convection in the DCLL blanket conditions</i>

12h40-14h10 Lunch

Dynamo Chairman : Rodion Stepanov (Russia)		Liquid metal technology and energy Chairman : Evgeny Krasilnikov (Russia)
14h10-14h50	P. Frick - Russia <i>Invited lecture : MHD-turbulence and turbulent effects in large-scale dynamo</i>	
14h50-15h10	M. Proctor <i>The role of fluctuations in mean-field alpha-omega dynamo</i>	A. Smakhtin <i>Ensuring conditions for plasma stream motion across magnetic field</i>
15h10-15h30	I.Kolesnichenko, P.Frick <i>The flow of electrically conducting fluid through a helical magnetic field</i>	I.Buceniaks, K.Kravalis <i>Characteristics of Disks type EM Induction Permanent Magnet Pump</i>
15h30-15h50	Reshetnyak, M.Yu. <i>Direct and inverse cascades in rapidly rotating dynamo systems</i>	R. Algrall, O. Coulaud, P. Henon, R. Huart, G. Huysmans, G. Latu, B. Nkonga, S. Pamela, P. Ramet <i>Numerical simulation of tokamak plasma</i>
15h50-16h10	M. Fischer, G. Gerbeth, A. Giesecke and F. Stefani <i>Constraining the geodynamo by sequences of field reversals</i>	V. Frishfelds, A. Jakovics, B. Nacke and E. Baake <i>Fractal like growth-up of channel furnaces and its influence on flow through channels</i>

16h10-16h30 Coffee break

	Dynamo Chairman : Mickael Proctor (UK)	Turbulence Chairman : Michael Mond (Israel)
16h30-16h50	G. Lipsbergs and A. Gailitis <i>Search for the next Dynamo experiment</i>	E. Jurcisinova, M. Jurcisin, and R. Remecky <i>Intermittency and anomalous scaling in a model of magnetohydrodynamics turbulence</i>
16h50-17h10	K.-H. Raedler and A. Brandenburg <i>Alpha-effect dynamo without kinetic helicity</i>	B. Teaca, M.K. Verma, P. Burattini, B. Knaepen, M. Kinet and D. Carati <i>Energy transfers in anisotropic magnetohydrodynamic</i>
17h10-17h30	V. Pipin and N. Seehafer <i>On the turbulent sources of the solar dynamo</i>	V. Dymkou and A. Pothérat <i>Spectral study of the magnetohydrodynamic turbulence under imposed magnetic field</i>
17h30-18h50	J. Priede, G. Gerbeth <i>Helical magnetorotational instability in a Taylor-couette flow</i>	D. Krasnov, O. Zikanov, J. Schumacher, T. Boeck <i>MHD turbulence in channel flow with spanwise magnetic field</i>
17h50-18h10	R. Stepanov, F. Plunian <i>Saturation scenario for turbulent dynamo</i>	A. Mikelsons, J.Valdmanis <i>Pair of Rankin-type vortexes in MHD</i>

Tuesday, September 9

	Magneto-electrolysis Chairman : Rioychi Aogaki (Japan)
8h30-9h10	Iwao Mogi (and Kazuo Watanabe)- Japan <i>Invited lecture : Chirality in Magneto-electrolysis</i>
9h10-9h30	C. Cronemberger, R. Ballou, and P. Molho <i>Characterization of MHD in thin cell electrodeposition</i>
9h30-9h50	G. Mutschke, C.Cierpka, T.Weier, K. Eckert, S. Mühlhoff and A. Bund <i>Three-dimensional magnetic field effects during metal electrodeposition in cuboid cells</i>
9h50-10h10	J. A. Koza, M. Uhlemann, A. Gebert, L. Schultz <i>The effect of magnetic fields on the electrodeposition of CoFe alloys</i>
10h10-10h30	A.L. Daltin, J.P. Chopart <i>Magnetic field effect on electrodeposition of Cu₂O crystals</i>

10h30-11h00 Coffee break

	Magneto-electrolysis Chairman : Tom Weier (Germany)	Rotating flows Chairman : Andre Thess (Germany)
11h00-11h20	R. Aogaki, R. Morimoto and A. Sugiyama <i>Double Layer Mechanism in Self-Organization of Copper Secondary Nodules under a Parallel Magnetic Field</i>	E. Yu. Krasilnikov <i>Magnetohydrodynamic intensification mechanism of tropical and extratropical cyclones, hurricanes and tornadoes and method of their prevention</i>
11h20-11h40	X. Yang, K. Eckert, P. Nikrityuk, K. Seidel, and M. Uhlemann <i>The start-up process of natural convection in presence of counteracting Lorentz force-driven convection</i>	A. Beltran, S. Cuevas and E. Ramos <i>Vortex generation and shedding by an oscillatory localized magnetic field</i>
11h40-12h00	P. R. Zabinski, A. Jarek, R. Kowalik <i>Effect of Applied External Magnetic Field on Electrodeposition of Cobalt Alloys for Hydrogen Evolution in 8 M NaOH</i>	A. Figueroa, S. Cuevas and E. Ramos <i>Mixing with a time-dependent MHD flow</i>
12h00-12h20	A. Levesque, S. Chouchane, J.P. Chopart, J. Douglade and R. Rehamnia <i>Effect of high magnetic field on electrodeposited Zn-Ni alloys</i>	Gellert M., Ruediger G. and Schultz M. <i>Towards eddy-conductivity measurements in MHD Taylor-Couette flows</i>
12h20-12h40	Ph. Mathon, A. Nouri, A. Alemany, J.-P. Chopart, V. Sobolik <i>Electro-chemical processes controlled by high magnetic fields : application to MHD sea water propulsion</i>	T. Tamsaout, A. Bouabdallah and A. Alemany <i>Free surface and inclined spherical Taylor-Couette flow application to the Dynamo effect</i>

12h40-14h10 Lunch

14h10-14h50	M. Uhlemann - Germany <i>Invited lecture : Electrodeposition of thin magnetic layers in high magnetic field</i>	
	Magneto-electrolysis Chairman : Piotr Zabinski (Poland)	Fundamental MHD Chairman : Sergio Cuevas (Mexico)
14h50-15h10	E.Platacis, R.Krishbergs, F.Muktepavela, A.Shishko <i>Analysis of the strong magnetic field influence on the corrosion of Eurofer steel in Pb17Li melt flows</i>	A. Beklemishev, C. Cremaschini, J. C. Miller and M. Tassarotto <i>Gravitational MHD equilibria in the presence of differential rotation</i>
15h10-15h30	C. Cronemberger, R. Ballou, and P. Molho <i>Numerical simulation of MHD in thin cell electrodeposition</i>	René Moreau, Sergey Smolentsev, and Sergio Cuevas <i>Flow in an insulating rectangular duct at the entry of a magnet. Part I. Influence of the Hartmann layers and inertia</i>
15h30-15h50	A. Nouri, Ph. Mathon, A. Alemany, J.-P. Chopart, V. Sobolik <i>Influence of the magnetic forces on the electrochemical processes</i>	V. Shatrov, G. Gerbeth, R. Hermann <i>An alternating magnetic field driven flow in a spinning cylindrical container and its three-dimensional linear stability analysis</i>
15h50-16h10	T. Weier, Ch. Cierpka, K. Eckert, M. Uhlemann, A. Bund <i>Flow structure and concentration distribution in seemingly parallel magnetic and electric fields</i>	V. Vorohobovs, A. Cebers <i>Delicate milling of non-magnetic substances by small iron-oxide spherical beads</i>
16h10-16h30	A. Pedčenko, S. Molokov , P.J. Thomas, A. Lukyanov, J. Priede <i>Experimental study of interfacial instability in aluminium reduction cells</i>	R. Klein, A. Pothérat <i>Experiment on MHD - Turbulence at low magnetic Reynolds's number</i>

16h30 Coffee break and poster session 1

Poster Session 1 - Fundamental MHD and magneto-electrolysis
 Chairmen : Margitta Uhlemann (Germany) and Pierre Molho (France)

- [P1-1] A. Golubev, E. Krasilnikov, V. Luschnik
Experimental studies of liquid metal flow over a cylinder and a flat plate in longitudinal magnetic field
- [P1-2] A. F. Zibold
Evolution of the hydrodynamical structure arising in the cylinder of the limited length under action of the rotating magnetic field
- [P1-3] I. Selezov
Suppression of plate oscillations by MHD-feedback control
- [P1-4] M. Al Radi, A. Hassan, A. Alemany
Influence of a contra rotating or a co rotating applied magnetic field on rotating flow structure at Liquid/Liquid Interface
- [P1-5] J. Priede, S. Aleksandrova, S. Molokov
Stability of buoyant convection in laterally heated liquid metal layer subject to transverse magnetic field
- [P1-6] Y. Shibasaki, T. Tagawa, K. Ueno
Effect of an external magnetic field on a rising air bubble in a liquid metal
- [P1-7] X. Zhang, A. Cramer, G. Gerbeth
Thermoelectromagnetic convection in a cubic container
- [P1-8] J.Valdmanis, A.Cipijis, R.Valdmane
Transverse $E \parallel B$ waves and their MHD aspects
- [P1-9] N. Seehafer, M. Fuhrmann, G. Valori, and B. Kliem
Solar force-free magnetic fields
- [P1-10] T. Lessinnes and D. Carati
An helical shell model for MHD turbulence
- [P1-11] A. Klykin, I. Grants, G. Gerbeth
Experimental study of traveling magnetic field driven instability in a thermally stratified liquid gallium cylinder
- [P1-12] E. Golbraikh, A. Kapusta, Sh. Lesin, B. Mikhailovich and B. Tilman
Turbulent Melt Flow in a Cylindrical Vessel under the Action of Superposition of Two Anharmonic RMFs
- [P1-13] Yu. Kolesnikov, Ch. Karcher, A. Thess, V. Minchenya
Lorentz force velocimetry : development and application
- [P1-14] E. Ligere, I. Dzenite
Analytical solution to the MHD problem on the influence of cross flow on the main flow in the plane channel at the Hartman large numbers
- [P1-15] S. Cuevas, R. Moreau, and S. Smolentsev
Flow in an insulating rectangular duct at the entry of a magnet. Part 2. Pressure distribution and head losses
- [P1-16] S.Ivanov, E.Platacis, I. Platnieks, R. Krishbergs, A. Flerov, A. Shishko, A. Zik,
Experimental Studies of the MHD Processes at the Inlet Elements of the Liquid Metal Blanket
- [P1-17] J. A. Koza, M. Uhlemann, A. Gebert, L. Schultz
The effect of a magnetic field on the pH value in front of the electrode
- [P1-18] F.Muktepavela, E.Platacis, R. Krishbergs, A. Shishko
Experimental Studies of the Strong Magnetic Field Action on the Corrosion of RAFM Steels in Pb17Li Melt Flows
- [P1-19] K.L. Rabah, A. Harrach, O. Aaboubi, J.-P. Chopard
Is there anything else but MHD for magnetically induced convection into a homogeneous field ?
- [P1-20] M. Zizi, A. Bouabdallah, Y. Laghouati and A. Alemany
Influence of a variable friction on the Kelvin–Helmholtz instability
- [P1-21] C. Mistrangelo, L. Bühler
Perturbations of MHD flows caused by the presence of an electric potential probe
- [P1-22] E. Golbraikh, A. Kapusta, B. Mikhailovich, A. Shapiro, I. Zilberman
Rotating Turbulent MHD Flow in Crossed Electrical and Magnetic fields
- [P1-23] Frick P., Denisov S., Noskov V., Stepanov R.
Experimental studies of effective electro conductivity of turbulent liquid metal (beta-effect)
- [P1-24] Frick P., Mizeva I., Stepanov R.
Role of cross-helicity in fully developed MHD turbulence
- [P1-25] M.Tessarotto, M.Ellero and P.Nicolinia
Inverse kinetic theory approach to fluid and MHD turbulence
- [P1-26] M. Tessarotto
Inverse kinetic theory for incompressible magnetofluids
- [P1-27] K. Messadek and M. A. Abdou
Experimental study of the MHD flow in a prototypic inlet manifold section of the DCLL blanket

17 h- 20 h MC Meeting of COST P 17

20h00 Gala Dinner

Wednesday, September 10

8h30-9h10	P. Kopčanský (et al.) - Slovak Republic <i>Invited lecture : Anti-cancer drug Taxol loaded by magnetic polymer nanospheres for biomedical applications</i>	
	Magnetic fluids and magnetic particles Chairman : Janis Freibergs (Latvia)	Electroprocessing of material Chairman : Yves Fautrelles (France)
9h10-9h30	L. Alberte, K. Ērglis, A. Cēbers <i>Thermal fluctuations of magnetotactic bacteria in AC magnetic fields</i>	A. Bojarevics, I. Kaldre, Yu. Gelfgat, Y. Fautrelle <i>A Sensor for Continuous Measurements of the Absolute Thermoelectric Power of Liquid Metal during Turbulent Non-Isothermal Mixing or Segregation of Multi-Component Melts</i>
9h30-9h50	E. Blums, G. Kronkalns and M. Maiorov <i>Thermosmosis in magnetic fluids in the presence of a magnetic field</i>	Iwai K., Furuhashi I., Kumazawa K. <i>Second Phase Behavior in Sodium Chloride Aqueous Solution under Strong Magnetic Field</i>
9h50-10h10	T. Kuwahara, F. De Vuyst, H. Yamaguchi <i>Bubble velocity measurement using magnetic fluid</i>	A. Jardy, V. Weber, P. Chapelle, D. Ablitzer <i>Experimental observation and mathematical modelling of consumable electrode remelting processes</i>
10h10-10h30	A Sellier <i>Migrating and interacting micro-bubbles immersed in a conducting liquid under the action of uniform ambient electric and magnetic fields</i>	M. Kirpo, A. Jakovics, E. Baake, B. Nacke <i>LES Study of Particle Transport in Turbulent Recirculated Liquid Metal Flows</i>

10h30-11h00 Coffee break

	Magnetic fluids and magnetic particles Chairman : Antoine Sellier (France)	Electroprocessing of material Chairwoman : Jacqueline Etay (France)
11h00-11h20	A. Bouhrour, M.Gheraba and D. Kalache <i>Natural Convection in a Ferrofluid submitted to a Uniform Magnetic Gradient</i>	M. Langejürgen, B. Nacke <i>Generation of graded microstructure by electromagnetic induced segregation of primary silicon crystals in aluminum silicon alloys</i>
11h20-11h40	P. Kopčanský, N.Tomašovičová, M.Koneracká, V.Závišová, M.Timko, L.Tomčo, A. Džarová, A. Šprincová, M.Hnatič, N.Ěber, K.Fodor-Csorba, T.Tóth-Katona, A.Vajda4 and J.Jadzyn <i>The role of shape of fine magnetic particles on structural transitions in ferronematics</i>	S. Asai <i>How to Manage a High Magnetic Field in Electromagnetic Processing of Materials</i>
11h40-12h00	I. Segal, A. Zablotskaya, E. Lukevics, M. Maiorov, D. Zablotsky, E. Blums, I. Shestakova, I. Domracheva <i>Iron oxide based magnetic nanoparticles bearing cytotoxic silylated alkanolamines</i>	V. Avilov, R. Moldovan, P. Berger, Th. Graf <i>Physical principles of electromagnetic weld-pool control in deep penetration laser beam welding of metals</i>
12h00-12h20	S. Peyman, A. Iles, N. Pamme <i>Handling of magnetic particles in microfluidic devices for the study of chemical reactions and bioanalysis</i>	P.A. Nikrityuk, S. Ananiev, K. Eckert, R. Grundmann <i>The influence of a direct electrical current on the growth of solutal dendrites</i>
12h20-12h40	A.A. Bozhko, G.F. Putin, S.A. Suslov <i>Magneto-hydrodynamic interaction in a vertical slot filled with ferrofluid</i>	Na X., Zhang X., Gan Y. <i>Numerical Simulation of Heat Transfer and Deformation of Initial Shell in Soft Contact Continuous Casting Mold Under High Frequency Electromagnetic Field</i>

12h40-14h10 Lunch

14h10 Excursion

14h10-16h00 GDRE GAMAS meeting

16 h- 19 h: COST WG4 meeting

Thursday, September 11

	Metallurgical applications Chairman : Claude Reed (USA)
8h30-9h10	J. Freibergs - Latvia <i>Invited lecture : Some metallurgical applications of MHD</i>
9h10-9h30	C. B. Reed, J. A. Nolen, P. N. Ostroumov, Y. Momozaki, and S. Kondrashev <i>Liquid Lithium Thin Film Strippers for High-Power Exotic Beam Facilities</i>
9h30-9h50	V. Bojarevics and K. Pericleous <i>Levitated droplet oscillations : effect of internal flow</i>
9h50-10h10	I. Buceniekš, A. Bojarevics, Yu. Gelfgat <i>On the Flow at the Liquid Metal Surface Subject to Rotating Magnetic Field</i>
10h10-10h30	XD. Wang, Y. Fautrelle, J. Etay and R. Moreau <i>Metal liquid flows driven by a periodically reversed electromagnetic force</i>

10h30-11h00 Coffee break

	Metallurgical applications Chairman : Shigeo Azai (Japan)	Crystal growth Chairman : Ivan Skorvanek (Slovakia)
11h00-11h20	H. Branover, E. Golbraikh, A. Kapusta, Sh. Lesin, B. Mikhailovich and B. Tilman <i>Study of Melt Flow in a Liquid Core of a Continuous Ingot</i>	A. Kao, G. Djambazov, K. Pericleous, and V. Voller <i>Effects of Magnetic Fields on Crystal Growth</i>
11h20-11h40	I. Kolesnichenko, A. Sukhanovsky, S. Khripchenko, I. Gladkov <i>Impact on inclusions in a shallow MHD channel</i>	Andre Thess, Cornelia Giessler <i>Electromagnetical Control of Thermal Convection of a Fluid with Strongly Temperature-Dependent Material Properties</i>
11h40-12h00	A. Umbrashko, E. Baake, B. Nacke, A. Jakovics <i>Numerical investigations of melt flow and skull formation in cold crucible melting process</i>	R. Lantzsch, I. Grants, O. Pätzold, M. Stelter, G. Gerbeth <i>Vertical Gradient Freeze growth in a combined magnetic AC/DC field</i>
12h00-12h20	D. Cepīte, A. Jakovičs, B. Halbedel, U. Krieger <i>The Contribution of Radiation Heat Transfer in Temperature Distribution of EM Driven Semi-transparent Glass Melt Flow</i>	K. Lācis, A. Muiznieks, N. Jekabsons, B. Nacke, G. Ratnieks <i>3D unsteady modelling of the influence of applied magnetic field on the melt flow in FZ Si single crystal growth</i>
12h20-12h40	Buryak V., Kolesnichenko A.A., Kolesnichenko A.F. <i>Extension of active zone of final electromagnetic stirrers by continuous steel casting</i>	B. Nacke, H. Kasjanow, A. Krauze, A. Muiznieks, F.-M. Kiessling, U. Rehse, P. Rudolph <i>Three-dimensional transient modeling of the melt flow in a TMF VCz system for GaAs crystal growth</i>

12h40-14h10 Lunch

14h10-14h50	E. Beaugnon - France <i>Invited lecture : Magnetic Ostwald ripening: high static field effect on the growth of ferromagnetic particles by solid state diffusion</i>	
	Magnetostatic Chairman : Francois Debray (France)	Crystal growth and metallurgical application Chairman : Janis Priede (England)
14h50-15h10	I. Škorvánek, J. Marcin, J. Turčanová, J. Kováč, P. Švec <i>Effects of heat treatment under an external magnetic field on the soft magnetic properties in FeCo-based nanocrystalline alloys</i>	L. Gorbunov and A. Pedchenko <i>Physical modelling of large-diameter silicon single crystal growth in a rotating magnetic field</i>
15h10-15h30	S. Rivoirard, T. Garcin, E. Beaugnon <i>Phase transformations in high magnetic field monitored by in-situ measurements</i>	I.V. Barmin, A.S. Senchenkov, A. Greif, O. Pätzold, U. Wunderwald, A. Cröll, A. Mitric <i>Application of rotating magnetic fields to crystal growth under microgravity (Experiments on FOTON M3)</i>
15h30-15h50	P. Schetelat, T. Breville, M. Di Michiel and J. Etay <i>Electromagnetic levitation – ERSF experiments</i>	T. Liu, Q. Wang, C. Zhang, A. Gao, C. Lou, J. He <i>Faceted to nonfaceted microstructure transformation of Sb phase in Sb-4.8%Mn hypoeutectic alloy induced by high magnetic fields</i>
15h50-16h10	Y. Sakaida, K. Iwai and S. Asai <i>Crystallographic structure of titanium under imposition of strong magnetic field</i>	F. Siddiqui, G.I. Kasyan, A.A. Kuchaev, R.J. Jakobshe <i>Application of electromagnetic stirring in caster mold in production of round billets</i>

Poster Session 2 : Applied MHD and ferrofluid
 Chairmen : Johan Deconinck (Belgium) and Serguei Molokov (England)

- [P2-1] Ramos E., Beltran A., Cuevas S., and Smolentsev S.
Dynamic Properties of a Magnetic Obstacle
- [P2-2] M.Abricka and Yu.Gelfgat
On the flow hydrodynamics in the channel of a cylindrical induction pump with no core
- [P2-3] Buryak V., Kolesnichenko A.A., Kolesnichenko A.F.
Generation and spreading of pulse MHD flow in solidifying ingot by continuous steel casting
- [P2-4] Z. Lipnicki, A. Bydalek
Contact layer between wave thin and cooper plate in a solidification process
- [P2-5] F.Mokhtari, A.Bouabdallah, M.Zizi, S. Hanchi, A. Alemany
Analytical study of Modified Czochralski Crystal growth problem
- [P2-6] V.G. Ghilin, Ya.I. Listratov, Yu.P. Ivotchkin, N.G. Razuvanov, V.G. Sviridov
The experimental liquid metal heat transfer investigations applied to fusion reactor
- [P2-7] D. Zablotsky, V. Frishfelds, E. Blums
Investigation of heat transfer efficiency of thermomagnetic convection in ferrofluids
- [P2-8] P.A. Nikrityuk, D. Rábiger, K. Eckert, S. Eckert, G. Gerbeth
Solidification of metal alloys under the influence of pulsemodulated magnetic fields
- [P2-9] M. Tassarotto
Inverse kinetic theory for incompressible magnetofluids
- [P2-10] L.Gorbunov and A. Pedchenko
Numerical Simulation of Large-Diameter Silicon Single Crystal Growth in a Rotating Magnetic Field
- [P2-11] T. Kohama, K. Iwai
Orientation Behavior of Anisotropic Crystal under Magnetic Field by Using X-Ray Diffraction
- [P2-12] A. Muiznieks, A. Rudevics, K. Lacis, H. Riemann, A. Ludge, J. Fischer, F.W. Schulze
3D modeling for the square-shaped silicon crystal growth process by FZ method
- [P2-13] A. Krauze, J. Priede, R. Hermann, G. Gerbeth,
Numerical modeling of the growth of small-diameter intermetallic compound crystals by a two-phase RF floating zone method
- [P2-14] S. Smolentsev , R. Moreau,
Modeling of quasi-two-dimensional magnetohydrodynamic turbulence
- [P2-15] I.Platnieks, J. E. Freibergs, J. Klavins
MHD Technique for production of Lead-Lithium Eutectic Alloy
- [P2-16] S. Khripchenko, R. Khalilov, I. Kolesnichenko, S. Denisov, G.Gerbeth
MHD-pumps operating on the principle of the interaction of the alternating magnetic field with the induced current
- [P2-17] S.Dementjev, F.Groeschel, S.Ivanov
On an Electromagnetic Pump for Liquid Metal Target for Swiss Spallation Neutron Source
- [P2-18] S.Ivanov, A.Flerov
Electromagnetic pumps for a liquid metal spallation targets : calculation, diagnostics, reliability
- [P2-19] A.Bojarevics, Yu.Gelfgat, Y.Fautrelle, J.Etay
Experimental Validation of a Dynamic Method to Determine the Thermoelectric Power of Metallic Liquid Alloys
- [P2-20] J. Priede, D. Buchenau, G. Gerbeth
Forcefree and contactless electromagnetic flow rate sensors
- [P2-21] J. Forbriger, V. Galindo, G. Gerbeth and F. Stefani
Determination of harmonic and pulsed eddy current distributions in a liquid metal
- [P2-22] M. Maiorov, G. Kronkalns, E. Blums
Complex magnetic susceptibility of cobalt ferrite ferrofluid : influence of carrier viscosity and particle concentration
- [P2-23] A. Bozhko, G. Putin
On spontaneous oscillations in ferrofluid convection
- [P2-24] A. Mezulis, E. Blums and G. Kronkalns
Magnetoconvective intensification of heat transfer based on permanent magnets
- [P2-25] M. Timko, P. Kopčanský, F. Herchl, M. Koneracká, K.Marton, I.Kolcunová, L. Tomčo
Dielectric properties of transformer oil based magnetic fluid
- [P2-26] G. Hasan, M. Alradi and A. Alemany
Thermo acoustic MHD electrical generator
- [P2-27] S. Chatzidakis, G. Cognet, Y. Fautrelle, R. Ernst
Analysis of the behaviour of conducting particles dispersed in an insulating liquid under a time-periodic magnetic field
- [P2-28] K. Zimmermann, V.A. Naletova, I. Zeidis, V.A. Turkov, D.A. Pelevina, T.Friedrich, and R. Richter
Deformation of a magnetic fluid surface due to ferromagnetic bodies in an applied uniform magnetic fluid
- [P2-29] Minchenya V., Karcher Ch., Kolesnikov Y., Thess A.
Calibration of the Lorentz Force Velocimeter for High-Temperature Melts
- [p2-30] Michael Mond and Mark Shliomis
Ultrasound Attenuation in Ferrofluids

Friday, September 12

Numerical simulation Chairman : Valdis Bojarevich (England)	
8h30-9h10	J. Deconinck (et al.) - Belgium <i>Invited lecture : A numerical framework for (magneto) electrochemistry</i>
9h10-9h30	Necdet Aslan <i>Numerical Compressible-Incompressible Magneto-Hydrodynamics with External Fields</i>
9h30-9h50	M. Barna, M. Javurek, M. Lechner <i>Numerical Simulations of the Flow in Round Bloom Strands with Electromagnetic Stirring</i>
9h50-10h10	T. Tagawa <i>Numerical computation of liquid metal flows driven by the gravity, rotation and surface tension in the presence of a magnetic field</i>
10h10-10h30	V. Dousset and A. Pothérat <i>Numerical computations of a cylinder wake inside a rectangular duct in a strong axial magnetic field</i>

10h30-11h00 Coffee break

Intense magnetic fields Chairman : Sergey Smolentsev (USA)	
11h00-11h40	F. Debray- France <i>Invited lecture : Magnet development at the Grenoble High Magnetic Field Laboratory</i>
11h40-12h00	K. Starke, S. Horanyi and L. Bühler <i>Experimental investigations of liquid-metal MHD flows in a mock-up of a helium cooled lead-lithium test blanket for ITER</i>
12h00-12h20	K. Ueno and M. Watabe <i>Conducting Fluid Flow around a Rising Particle in a Vessel under a Strong Vertical Magnetic Field</i>
12h20-12h40	S. Kenjeres, E. Fornalik, T. Bednarz, W. Wrobel, H. Ozoe, J. S. Szmyd <i>Analysis of paramagnetic fluid behavior in a cube differentially heated under a strong non-uniform magnetic field</i>

12h40-13h00 Closing ceremony

13h00-14h30 Lunch