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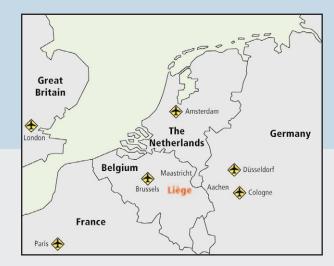
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Important dates

Extended deadline for submission of abstracts	November 15 th , 2009
Acceptance of papers	December 18 th , 2009
Final announcement with	
programme	May 2010
Manuscripts of accepted papers	January 30 th , 2010
Reviewers' comments	March 31 th , 2010
Final manuscripts	April 30 th , 2010
Final programme	May 2010
Ninth Liege Conference	September 27 th – 29 th , 2010

Aitglied der Helmholtz-Gemeinschaft



Liège Conference 2010

Forschungszentrum Jülich

Conference Service

52425 Jülich

Germany

Please return before 15 November 2009



9th Liège Conference on Materials for Advanced Power Engineering

September 27th – 29th, 2010 Liège • Belgium





Introduction

The 9th Liège Conference on Materials for Advanced Power Engineering will be held on September 27th – 29th, 2010 at the Palais des Congrès in Liège, Belgium. The achievements of the European materials development projects carried out in the COST Actions 536 'Alloy Development for Critical Components of Environmentally Friendly Power Plant' and 538 'High Temperature Plant Lifetime Extension' which are ended in 2009 and 2008, respectively, will be reviewed. In addition, the broad field of current materials research for high efficiency, low-emission and zero emission power plants are reported.

The topics that will be covered in the conference are:

- · Ferritic, martensitic, and austenitic steels as well as Nickel base alloys for high temperature steam power plants
- Coatings for protection against fire-side and steam-side corrosion in steam power plants
- High performance Nickel base alloys for gas turbines
- Innovative thermal barrier coatings for high efficiency gas turbines
- Membrane materials for CO₂ separation in zero emission power plants
- · Materials for nuclear fusion reactors and advanced nuclear fission power plants
- Materials issues for alternative power plant processes (IGCC, Oxyfuel) as well as for combustion of low grade fuels, biomass and waste
- Production of components, including casting, hot and cold working, heat treatment and welding
- Novel materials (intermetallics, composites) and processes for energy conversion
- Cross cutting topics in research on high temperature materials, especially:
- High temperature corrosion
- Thermomechanical fatigue
- Modeling and lifetime prediction tools

Following the well established format of previous Liège conferences, a series of review papers will describe the European materials developments carried out in the COST Actions 536 and 538. Invited lectures by internationally recognized experts will present the status within the other topics mentioned above. Sessions concerning new energy technologies and materials perspectives for the next decade are planned. Contributions on all issues to be presented at the conference are welcome. They will be presented in the form of posters combined with reviewed proceedings.

Language

The official language will be English.

Proceedings

The papers and poster contributions will be reviewed and published in the Conference Proceedings, which will be available at the Conference.

Social and Guest Programmes

The social programme will include an ice-breaker party on Sunday September 26th and a Conference Dinner. An attractive guest programme with visits to Liège, Maastricht and Aachen will be organised. Further details will be given in the Second Announcement.

Accommodation

A list of hotels and guest houses in Liège and surroundings will be provided.

Travel Information

Liege is easily reached by road or train from Germany, France and the Netherlands. The nearest airports are Brussels International (Zaventem) with frequent train services to Liège Guillemins Railway Station; and Brussels South (Charleroi) for low cost airlines, with shuttle bus to Charleroi train station and connections to Liège Guillemins.

Call for Papers

Contributions related to any of the Conference topics may be submitted for presentation as posters. The reviewed manuscripts of poster presentations will be published in the Proceedings. If you wish to submit a poster presentation, please send the title and a halfpage abstract, as soon as possible, either by e-mail or post to: Marc.Carton@ulg.ac.be

Marc Carton Université de Liège Département ASMA Secteur Matériaux Métalliques Spéciaux Institut de Mécanique et Génie Civil Chemin des Chevreuils, B52/3 Sart Tilman 4000 Liège, Belgium

9 th Liège Conference September 27 th – 29 th , 2010		9 th L Mat Sept
Preliminary P	rogramme	Preli
Sunday, September 26 th		
From 18:00	Registration and Ice-Breaker Party	
Monday, Sept	tember 27 th	r
08:30 - 09:15	Registration	
09:15 - 10:00	Inaugural Session	
10:00 - 12:30	Materials for Advanced Steam Power Plants Materials, Joining Technology and Future	Name
	Perspectives	First
14:00 - 17:30	Gas Turbine Materials Nickel Base Superalloys and Thermal Barrier Coating Systems	Instit
18:00 - 20:00	Reception and Poster Session	
Tuesday, September 28 th		Addre
09:00 - 10:30	Nuclear Fission and Fusion Fast Breeder Technology, Generation IV reactors, Supply Chain Issues, ITER Materials Research	Addit
11:00 - 12:30	Solid Oxide Fuel Cells Materials for SOFCs and Gas Separation Membranes	
	Worldwide Solid Oxide Fuel Cell Development	Telep
14:00 - 17:00	General Topics Corrosion, Thermomechanical Fatigue, Modeling, Life Assessment	Telefa
Wednesday, September 29 th		E-mai
09:00 - 12:30	Materials for Zero-Emission Power Plants Materials, processing and practical experience	Title
12:30 - 13:00	Closing Session	

Autho

Liège Conference on terials for Advanced Power Engineering t. 27th – 29th, 2010 • Liège • Belgium iminary Registration

am interested in the meeting. Please put me on your mailing list.

would like to submit a poster

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