



SPECIAL SESSIONS

Special Session 1

[FLOW SYSTEMS, DESIGN AND OPTIMIZATION \(SS1\)](#) <<< [click here](#)

Organisers:

Prof. Antonio F. Miguel

University of Evora,
Portugal

Prof. Luiz Rocha

Federal University of Rio Grande do Sul,
Brazil

Special Session 2

[DIFFUSION PROCESSES AND REACTIONS IN ENGINEERING ALLOYS \(SS2\)](#) <<< [click here](#)

Organisers:

Prof. Helmut Mehrer

Universitat Munster,
Germany

Prof. Graeme Murch

University of Newcastle,
Australia

Prof. Irina Belova

University of Newcastle,
Australia

Special Session 3

[GRAIN BOUNDARIES AND INTERFACES: STRUCTURE, THERMODYNAMICS AND DIFFUSION PROPERTIES \(SS3\)](#) <<< [click here](#)

Organisers:

Prof. Vladimir V. Popov

Russian Academy of Sciences,
Russia

Prof. Boris B. Straumal

Russian Academy of Sciences,
Russia

Special Session 4

[ALTERNATIVE ENERGIES\(SS4\)](#) <<< [click here](#)

Organisers:

Dr. Germán Ferreira

University of Zaragoza,
Spain

Special Session 5

[CARBON AND OXIDE NANOSTRUCTURES \(SS5\)](#) <<< [click here](#)

Organisers:

Prof. Noorhana Yahya

Universiti PETRONAS,
Malaysia

Prof. Gregory Kozlowski

Wright State University,
USA

Dr. Krzysztof Koziol

University of Cambridge,
UK

Special Session 7

[HEAT AND MASS TRANSFER IN POROUS MEDIA \(SS7\)](#) <<< [click here](#)

Organisers:

Prof. Joao Delgado

University of Porto,
Portugal

Special Session 9

[NANO/BIO MATERIALS SYNTHESIS, CHARACTERIZATION, MODELING AND APPLICATIONS \(SS9\)](#) <<< [click here](#)

Organisers:

Prof. A. Shokuhfar

K.N.Toosi University of Technology,
Iran

Special Session 10

[HYDROGEN-RELATED KINETICS IN MATERIALS \(SS10\)](#) <<< [click here](#)

Organisers:

Prof. Yuh Fukai

Institute of Industrial Science,
The University of Tokyo,
Japan

Prof. Markus Wilde

Institute of Industrial Science,
The University of Tokyo,
Japan

Special Session 11

[MICROSCOPY, MICROANALYSIS AND THEIR APPLICATION ON MATERIALS \(SS11\)](#) <<< [click here](#)

Organisers:

Prof. Keesam Shin

Changwon National University
Republic of Korea



Special Session 1
FLOW SYSTEMS, DESIGN AND OPTIMIZATION (SS1)

FLOW SYSTEMS, DESIGN AND OPTIMIZATION (SSI)

Advances in the understanding of fluid flow processes and design generation continue to be crucial in achieving improved performance and efficiency in a broad range of systems.

This special session welcomes contributions on any aspect of fluid flow, heat transfer, fluid-structure interaction and on the design of flow systems.

Papers reporting theoretical, experimental and computation research results on above topics are solicited.

Publication:
 Journal of Mechanical Engineering (Selected Papers)
 Impact Factor 0.466 / webpage <http://en.sv-jme.eu/>



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Invited Speakers:



'SLUDGE FLOW AND DRYING CHARACTERISTICS IN PADDLE DRYERS'
Dr. Houlei Zhang
 Nanjing University of Science and Technology
 China



'CHANGE IN DIFFUSION PATTERNS ALONG DESIGN EVOLUTION'
Dr. Marcelo Errera
 Universidade Federal do Paraná
 Brasil