

Preliminary Program (April 16, 2014)

5th International Conference on Porous Media and Their Applications in Science, Engineering and Industry

An ECI Conference Series

June 22-27, 2014
Kona, Hawaii, USA

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ECI

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**Sunday, June 22, 2014**

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**TBD**

**Notes**

- Taping and photography of any presentations are prohibited.
- Speakers – Please leave at least 5 minutes for questions and discussion.
- Please do not smoke at any conference functions.
- Turn your cellular telephones to vibrate or off during technical sessions.
- Please write your name on your program so that it can be returned to you if lost.
- After the conference, ECI will send an updated participant list to all participants. Please check your listing now and if it needs updating, you may correct it at any time by logging into your ECI account.
**Monday, June 23, 2014**

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| 08:00 – 08:50 | **Keynote – TBD**  
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| 08:50 – 09:15 | **ORAL SESSION 1: Natural and forced convection in porous media (I)**  
Session Chair: TBD |
|             | **Nonlinear natural convection in porous media and the collapse of the wave function**  
Peter Vadasz, Northern Arizona University |
| 09:15 – 09:40 | **Onset of double diffusive reaction-convection in an anisotropic porous layer with internal heat source**  
Sravan Nayeka Gaikwad, Gulbarga University |
| 09:40 – 10:05 | **Nonlinear magneto convection in a sparsely packed porous medium**  
Avula Benerji Babu, National Institute of Technology Warangal |
|              | Coffee Break                                                          |
| 10:20 – 10:45 | **Novel convective heat transfer enhancement in channels and tubes filled with nanofluid-saturated metal foams**  
Akira Nakayama, Shizuoka University |
| 10:45 – 11:10 | **Mathematical modeling of double diffusive natural convection from an inclined wavy surface in a doubly stratified Darcy porous medium**  
Ramana Reddy V. J, Defense Institute of Advanced Technology, Girinagar, Pune |
|              | **ORAL SESSION 2: Material processing applications**  
Session Chair: TBD |
| 11:10 – 11:35 | **Sensitivity analysis of effective thermal conductivity of open-cell ceramic foams using a simplified model based on detailed structure**  
Miguel Mendes, TU Bergakademie Freiberg |
| 11:35 – 12:00 | **Thermal properties of highly porous fibrous ceramics**  
Jingjing Sun, Aerospace Research Institute of Materials and Processing Technology, Beijing |
| 12:00 – 12:25 | **Fabrication and microstructural characterization of silica aerogel by aging additional pressurization**  
Xiaoyan Wang, Aerospace Research Institute of Material and Processing Technology, Beijing |
| 12:25 – 12:50 | **The preparation and properties of novel structural carbon foams derived from different mesophase pitches**  
Liqiong Yu, Aerospace Research Institute of Materials and Processing Technology, Beijing |
|              | Lunch                                                                  |
Monday, June 23, 2014 (continued)

**CONCURRENT - ORAL SESSION 3: Industrial and environmental heat transfer and flow in porous media (I)**
Session Chair: TBD

14:00 – 14:25  Improved permeability prediction for heterogeneous porous media by bundle-of-leaky-tubes with cross-flow model
Faruk Civan, University of Oklahoma

14:25 – 14:50  Fate and transport of nanohybrids in subsurface media for oil field applications
Ben Shiau, The University of Oklahoma

14:50 – 15:15  Porous structures used as flameproof pressure relief elements a novel approach of flameless venting
Julia Hornig, Physikalisch-Technische Bundesanstalt (PTB)

15:15 – 15:40  Investigation of flow properties in open cell isotropic and anisotropic foams: Darcy and weak inertia regime
Prashant Kumar, Aix-Marseille University

15:40 – 16:05  An investigation of porous inserts in electronic cooling
Fatemeh Tavakkoli, University of California, Riverside

**CONCURRENT - ORAL SESSION 4: Process heat transfer**
Session Chair: TBD

14:00 – 14:25  Multilayer minichannel heat sinks: The effect of porosity scaling on pressure drop
Fatemeh Hassanipour, University of Texas at Dallas

14:25 – 14:50  Heat transfer process parameter optimization in Si/Ge using Taguchi method
Ranga Charyulu Evlm, Pujya Sri Madhavanji College of Engineering and Technology

14:50 – 15:15  Perturbation analysis of heat transfer and a novel method for changing third kind boundary condition into first kind
Mohammadreza Shahnazari, Kntoosi University of Technology

15:15 – 15:40  Improvements on the local thermal non-equilibrium model in porous media
Pei-Xue Jiang, Tsinghua University

15:40 – 16:05  Effective solid-to-fluid heat transfer coefficient in EGS reservoirs
Xiao-Long Ouyang, Tsinghua University

16:05 – 19:30  
*ad hoc* sessions / free time

19:30 – 21:00  Dinner

21:00 – 22:30  Poster Session (with beer and wine)
Tuesday, June 24, 2014

07:00 – 08:00  Breakfast

08:00 – 08:50  Keynote Talk – TBD
TBD

**ORAL SESSION 5: Natural and forced convection in porous media (II)**
Session Chair: TBD

08:50 – 09:15  Mixed convection in horizontal channels heated below with external heat losses on upper plate and partially filled with aluminum foam
Oronzio Manca, Dipartimento di Ingegneria Industriale e dell'Informazione, Seconda Università degli Studi di Napoli

09:15 – 09:40  Mixed convection in a channel with an open cavity filled with porous media in local thermal non-equilibrium
Oronzio Manca, Dipartimento di Ingegneria Industriale e dell'Informazione, Seconda Università degli Studi di Napoli

9:40 – 10:05  On the velocity distribution in a microscopic porous medium
Maciej Matyka, University of Wroclaw

Coffee Break

10:20 – 10:45  Miscible density driven convective mass transfer process analysis based on Entransy dissipation theory
Rong Li, Tsinghua University

**ORAL SESSION 6: Experimental and measuring techniques**
Session Chair: TBD

10:45 – 11:10  Experimental analysis of air vortex Impingement through porous screens
Fatemeh Hassanipour, University of Texas at Dallas

11:10 – 11:35  Experimental evaluation of wellbore cement- formation shear bond strength in presence of drilling fluid contamination
Mileva Radonjic, Louisiana State University

11:25 – 11:50  Experimental and numerical analysis of effective thermal conductivity of open cell anisotropic foams: influence of strut shapes and porosity
Prashant Kumar, Aix-Marseille University

11:50 – 12:15  Adsorption properties and permeation performances of DD3R zeolite membranes
Giuseppe Barbieri, ITM CNR

12:15 -12:40  Quantification of effect of convergence in porous media flow
Srinivas Pasupuleti, Indian School of Mines

Lunch
**Tuesday, June 24, 2014 (continued)**

**CONCURRENT ORAL SESSION 7: Natural and forced convection in porous media (III)**
Session Chair: TBD

13:30 – 13:55

Numerical investigation of natural convective heat transfer characteristics of Al₂O₃-water nano fluid through porous media embedded in a square cavity
Siva Sai Vadri, Indian Institute of Technology Madras

13:55 – 14:20

Effect of temperature dependent viscosity on natural convective boundary layer flow over a horizontal plate embedded in a nanofluid saturated porous medium
Shobha Bagai, University of Delhi

14:20 – 14:45

A comparative study of mixed convection process in a fluid saturated vertical porous enclosures under the influence of suction effect
Krishna Murthy V. S. S. N. V. G. Somanchi, Defence Institute of Advanced Technology, Girinagar, Pune, India

14:45 – 15:10

Non-Darcy Fluid Flow and Heat Transfer in Conduits fitted with Porous Media
A.A. Mohamad, University of Calgary, Calgary, AB, Canada

15:10 – 15:35

Effects of variable viscosity on mixed convection past a vertical heated plate with internal heat generation
P.A. Dinesh, M.S Ramaiah Institute of Technology

15:35 – 16:00

Numerical simulation of pressure pulse decay experiment on crushed low permeability rocks considering Klinkenberg effect and gas absorption/desorption
Bo Zhou, Tsinghua University

**CONCURRENT ORAL SESSION 8: Bio transport in porous media**
Session Chair: TBD

13:30 – 13:55

Technology development based on biofilm-mediated mineral precipitation in porous and fractured media
Robin Gerlach, Montana State University

13:55 – 14:20

Concentration of bioethanol and dehydration of organic solvents by porous membranes
Tadashi Uragami, Kansai University

14:20 – 14:45

A model for magnetic drug targeting in a permeable microvessel with spherical porous carrier particles
Precious Sibanda, University of KwaZulu-Natal

14:45 – 15:10

Modeling of biofuel combustion engine: Ignition timing and NOₓ emission
Hachem Hedfi, Khalifa Slimi, National Engineering School, University of Monastir, Higher Institute of Transport and Logistics, University of Sousse
Tuesday, June 24, 2014 (continued)

15:10 – 15:35
Fungal seed bank: Preservation spore in tablet bentonite as dried starter of fiber biodegumming
Fadilatul Laela Insan, Padjadjaran University

15:35 – 19:30
ad hoc sessions / free time

19:30 – 21:00
Dinner

21:00 – 22:30
Poster session and social hour
**Wednesday, June 25, 2014**

07:00 – 08:00  Breakfast

08:00 – 08:50  Keynote Talk – TBD
   TBD

**ORAL SESSION 9: Combined heat and mass transfer in porous media (I)**
Session Chair: TBD

08:50 – 09:15  Theoretical investigation of the influences of thermal boundary conditions upon the heat transfer characteristics in a channel partially filled by a porous material
   Nader Karimi, University of Glasgow

09:15 – 09:40  HYDRA: Macroscopic modeling of hybrid ablative thermal protection system
   Gregory Pinaud, Airbus Defense and Space

9:40 – 10:05  Phase change with local thermal non-equilibrium in a two-phase mixture model
   Franz Lindner, Universität der Bundeswehr München

Coffee Break

10:20 – 10:45  Effect of variable porosity on composite heat transfer in a boundary layer flow
   Nagaraju Puttabasavsetty, Vijaya College

10:45 – 11:10  MHD flow and heat transfer from an exponentially stretching sheet in a non-darcian saturated porous medium with non-uniform heat source
   Prashant Metri, Gulbarga University

**ORAL SESSION 10: Particle transport and deformable porous bodies**
Session Chair: TBD

11:10 – 11:35  Studies on permeability properties and particle capture efficiencies of porous sic ceramics processed by oxide bonding technique
   Atanu Dey, Central Glass & Ceramic Research Institute

11:25 – 11:50  MRI evidence of nanoparticles migration in drying porous media
   Emmanuel Keita, Université Paris-Est, Laboratoire Navier

11:50 – 12:15  Fractional diffusion model for transport through porous media
   Iftikhar Ali, King Fahd University of Petroleum and Minerals

12:15 – 12:40  Self adaptation of deformable porous media during boiling
   Ariane Salvans, Aix-Marseille University

Lunch
**Wednesday, June 25, 2014 (continued)**

**CONCURRENT ORAL SESSION 11: Advances in Numerical Techniques (I)**

Session Chair: TBD

**13:30 – 13:55**

Performance comparison of the finite-difference, practical-finite-analytic, differential-quadrature, and differential-cubature methods for solving porous media immiscible fluids transport
Faruk Civan, University of Oklahoma

**13:55 – 14:20**

Advanced algorithms for high resolution simulation of pore scale reactive transport
David Trebotich, Lawrence Berkeley National Laboratory

**14:20 – 14:45**

A numerical solution of nonlinear equation representing one dimensional Instability phenomena in porous media by differential quadrature method
Vikas Pradhan, SVNIT

**14:45 – 15:10**

Numerical analysis for the hydrodynamic stability of fluid flow by Chebyshev-Tav method
Zahra Ahmadi, K.N.Tossi University of Technology

**15:10 – 15:35**

A new test for exclusion algorithm to find the optimum value of function
Ibraheem Alolyan, King Saud University

**15:35-16:00**

Analysis of the transport in the resting mammary glands
Ana Quezada, University of California, Riverside

**CONCURRENT ORAL SESSION 12: Particle migration and deposition in porous media (I)**

Session Chair: TBD

**13:30 – 13:55**

Transport in groundwater aquifers: Simplifying models using natural stratigraphy
Robert McKibbin, Massey University

**13:55 – 14:20**

On pore scale simulation of reactive flows and of particles transport and deposition in porous media
Oleg Iliev, Fraunhofer ITWM

**14:20 – 14:45**

The use of expandable casing technology as a new remediation tool for micro-annular gas migration
Mileva Radonjic, Louisiana State University

**14:45 – 15:10**

CO2 migration in the geological formation
Shujuan Wang, University of California, Riverside

**15:10 – 15:35**

Advances of groundwater hydraulics and flow
Walter Loo, Environment & Technology Services
Wednesday, June 25, 2014 (continued)

15:35-16:00  Pressure transient characteristics of multi-stage fractured horizontal wells in shale gas reservoirs with consideration of multiple mechanisms
Jingjing Guo, Southwest Petroleum University

16:00 – 19:30  *ad hoc* sessions / free time

19:30  Dinner on own
Thursday June 26, 2014

07:00 – 08:00  Breakfast

08:00 – 08:50  Keynote Talk – TBD
   TBD

ORAL SESSION 13: Combined heat and mass transfer in porous media ( II )
   Session Chair: TBD

08:50 – 09:15  Microscale simulation of thermal and concentration gradient in a porous media
   Seshasai Srinivasan, McMaster University

09:15 – 09:40  Influence of thermal radiation from solid phase upon the local thermal non-equilibrium condition in a porous medium
   Nader Karimi, University of Glasgow

9:40 – 10:05  Nonlinear stability of non-isothermal Poiseuille flow in a vertical channel under LTNE state: Effect of Forchheimer number
   Premananda Bera, Indian Institute of Technology Roorkee

   Coffee Break

10:20 – 10:45  Investigation of transpiration cooling with local thermal non-equilibrium model: Effects of different thermal boundary conditions at the porous-fluid interface
   Zheng Huang, Tsinghua University

ORAL SESSION 14: Advanced mathematical approaches to the modeling of porous media
   Session Chair: TBD

10:45 – 11:10  Effective permeability upscaling from heterogenous to homogenous porous media
   Mehmet Cicek, University of Oklahoma

11:10 – 11:35  Mathematical modeling of instability phenomenon in slightly inclined porous media with magnetic fluid effect
   Nisha B. Vyas, C.K. Pithawalla College of Engineering & Technology

11:35 – 12:00  Mathematical modeling and analysis of fingero-imbibition phenomenon in vertical downward cylindrical homogeneous porous media with magnetic field effect
   Amit Parikh, Nirma University

12:00 – 12:25  Transverse magnetic field on viscous fluid flow in porous media an exact solution
   P.A. Dinesh, M. S. Ramaiah Institute of Technology

   Lunch
Thursday, June 26, 2014 (continued)

**CONCURRENT ORAL SESSION 15: Advances in numerical techniques (Ⅱ)**
Session Chair: TBD

13:30 – 13:55  
**Modified Rhie-Chow / PISO algorithm for collocated variable finite porous media flow solvers**  
Markus Nordlund, Philip Morris Products SA

13:55 – 14:20  
**Turbulence in porous media: Some fundamental questions addressed by DNS solutions**  
Marc-Florian Uth, Hamburg University of Technology

14:20 – 14:45  
**Numerical investigation of an inclined transpiration cooled sharp edge for SHEFEX III**  
Christian Dittert, German Aerospace Center

14:45 – 15:10  
**Numerical solutions of non-linear fractional transport models in unconventional hydrocarbon reservoirs using variational iteration method**  
Nadeem Malik, King Fahd University of Petroleum and Minerals

15:10 – 15:35  
**Numerical solution of one dimensional advection-diffusion equation with variable coefficients in a finite domain using differential quadrature method**  
Sona Raj, SVNIT

15:35-16:00  
**Comparison of volume-average simulation and pore-scale simulation of thermal radiation and natural convection in high temperature packed beds**  
Le Zhang, Tsinghua University

**CONCURRENT ORAL SESSION 16: Particle migration and deposition in porous media (Ⅱ)**
Session Chair: TBD

13:30 – 13:55  
**Heat flow from a buried cylindrical tank partially submerged in groundwater**  
Robert McKibbin, Massey University

13:55 – 14:20  
**Effects of non-Darcy flow and pore proximity on gas condensate production from nanopore unconventional resources**  
Alireza Sanaei, University of Oklahoma

14:20 – 14:45  
**Derivation of a new stress boundary condition at the interface between a porous medium and a homogeneous fluid**  
Mario Minale, Seconda Università di Napoli

14:45 – 15:10  
**A multiphase flow model for modelling CO₂ storage in deep saline aquifer reservoirs**  
Hedi Jedli, National Engineering School

15:10 – 15:35  
**Research of particles migrating mechanism in loosen sandstone reservoir and the strategy of moderate sanding**  
Zhaohui Chen, SWPU

15:35 – 16:00  
**Pollution transfer and accumulation in double-porous media**  
Dmytro Yevdokymov, Dniepropetrovsk National University
Thursday, June 26, 2014 (continued)

16:00 – 19:30  
ad hoc sessions / free time

19:30 – 21:00  
Banquet
Friday June 27, 2014

07:00 – 08:00  Breakfast

08:00 – 08:50  Keynote Talk – TBD
TBD

**CONCURRENT ORAL SESSION 17: Evaporation, condensation, capillary effects and reactive flow in porous media**
Session Chair: TBD

08:50 – 09:15  Effect of helium-3 formation on the thermal decomposition of uranium tritide particle beds
Ryan Keedy, Sandia National Laboratories

09:15 – 09:40  On the influences of the thermal boundary condition at porous-fluid interface upon the Nusselt number in a pipe partially filled by a porous material
Nader Karimi, University of Glasgow

9:40 – 10:05  Application of high pressure chemical reactors in study of physico-chemical characteristics and catalytic activity of COO(I), COO(II) AND COO(I,II)
Virendra Goswami, Indian Institute of Technology

10:05 – 10:20 Coffee Break

10:20 – 10:45  Evaporation from a capillary tube: Experiment and modelization
Emmanuel Keita, Université Paris-Est, Laboratoire Navier

10:45 – 11:10 Three dimensional heat and mass transfer in capillary evaporator
Laetitia Mottet, Institut de Mécanique des Fluides de Toulouse

11:10 – 11:35 Effect of velocity slip on two phase flow in an eccentric annular region
P.A. Dinesh, M.S. Ramaiah Institute of Technology

**CONCURRENT ORAL SESSION 18: Industrial and environmental heat transfer and flow in porous media (Ⅱ)**
Session Chair: TBD

08:50 – 09:15 Use of liquid pressure-pulse decay permeameter in experimental evaluation of permeability in wellbore cement under geopresseded geothermal conditions
Mileva Radonjic, Louisiana State University

09:15 – 09:40 Non-Darcy fluid flow and heat transfer in conduits fitted with porous
Abdulmajeed Mohamad, University of Calgary
Friday June 27, 2014 (continued)

9:40 – 10:05  Combined heat and mass transfer in thermal-solvent oil sands recovery processes  
Ian D. Gates, University of Calgary

10:05 – 10:20  Coffee Break

10:20 – 10:45  Steady MHD flow of a Sisko fluid past a porous plate  
Shirley Abelman, University of the Witwatersrand, Johannesburg

10:45 – 11:10  Experimental study for air cooling using membrane covered tray  
Mohamed Ali, King Saud University

11:10 – 11:35  Study of microstrip antenna parameters using porous materials  
Pushpanjali Metri, Central University of Karnataka, Gulbarga

11:35 – 12:00  Closing Remarks

12:00 – 14:00  Lunch

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<td>Mengran Yu</td>
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<td>Sonia Woudberg</td>
<td>Comparative analysis of geometric models for predicting the dynamic specific surface of foamlike media</td>
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<td>Kazuhisa Yuki</td>
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