



2<sup>nd</sup> IMPA-InterPore

# Conference on Porous Media

*Conservation Laws, Numerics and Applications*

IMPA, Rio de Janeiro, Brazil

October 16-19, 2016

We hereby certify that, **Andres Valdez, Laboratório Nacional de Computação Científica**, participated in the 2<sup>nd</sup> IMPA-InterPore Conference on Porous Media: Conservation Laws, Numerics and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 16<sup>th</sup> to 19<sup>th</sup>, 2016 and presented following poster: “**On Multiscale Methods to characterize the permeability of porous media**”.

Rio de Janeiro, October 19<sup>th</sup>, 2016.

Alexei A. Mailybaev  
Organizing Committee

CERTIFICATE



Support



2<sup>nd</sup> IMPA-InterPore

# Conference on Porous Media

*Conservation Laws, Numerics and Applications*

IMPA, Rio de Janeiro, Brazil

October 16-19, 2016

We hereby certify that, **Angel Enrique Ramirez Gutierrez**, Instituto de Matemática y Ciencias Afines, participated in the 2<sup>nd</sup> IMPA-InterPore Conference on Porous Media: Conservation Laws, Numerics and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 16<sup>th</sup> to 19<sup>th</sup>, 2016 and presented following poster: “**Numerical Simulation of an In-Situ Combustion Model Formulated as Mixed Complementarity Problem**”.

Rio de Janeiro, October 19<sup>th</sup>, 2016.

Alexei A. Mailybaev  
Organizing Committee

CERTIFICATE



Support





2<sup>nd</sup> IMPA-InterPore

# Conference on Porous Media

*Conservation Laws, Numerics and Applications*

IMPA, Rio de Janeiro, Brazil

October 16-19, 2016

We hereby certify that, **Anna Radovanovic, Universidade Estadual do Norte Fluminense**, participated in the 2<sup>nd</sup> IMPA-InterPore Conference on Porous Media: Conservation Laws, Numerics and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 16<sup>th</sup> to 19<sup>th</sup>, 2016 and presented following poster: “**Analytical Solution for the Flow of a Carreau Type non-Newtonian Fluid in Porous Media**”.

Rio de Janeiro, October 19<sup>th</sup>, 2016.

Alexei A. Mailybaev  
Organizing Committee

CERTIFICATE



Support



2<sup>nd</sup> IMPA-InterPore

# Conference on Porous Media

*Conservation Laws, Numerics and Applications*

IMPA, Rio de Janeiro, Brazil

October 16-19, 2016

We hereby certify that, **Arthur Miranda do Espirito Santo, IMECC**, participated in the 2<sup>nd</sup> IMPA-InterPore Conference on Porous Media: Conservation Laws, Numerics and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 16<sup>th</sup> to 19<sup>th</sup>, 2016 and presented following poster: **“A Finite Volume Method Based On A Lagrangian-Eulerian Principle For Solving Hyperbolic Conservation Laws”**.

Rio de Janeiro, October 19<sup>th</sup>, 2016.

Alexei A. Mailybaev  
Organizing Committee

CERTIFICATE



Support





2<sup>nd</sup> IMPA-InterPore

# Conference on Porous Media

*Conservation Laws, Numerics and Applications*

IMPA, Rio de Janeiro, Brazil

October 16-19, 2016

We hereby certify that, **Ciro Javier Díaz Penedo, IMECC**, participated in the 2<sup>nd</sup> IMPA-InterPore Conference on Porous Media: Conservation Laws, Numerics and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 16<sup>th</sup> to 19<sup>th</sup>, 2016 and presented following poster: **“Combining the Spectral Method and the Mixed and Hybrid Finite Element Method to Corroborate the Effectiveness of a Renormalization Process Applied to the Kpz Model”**.

Rio de Janeiro, October 19<sup>th</sup>, 2016.

Alexei A. Mailybaev  
Organizing Committee

CERTIFICATE



Support



2<sup>nd</sup> IMPA-InterPore

# Conference on Porous Media

*Conservation Laws, Numerics and Applications*

IMPA, Rio de Janeiro, Brazil

October 16-19, 2016

We hereby certify that, **Edwin Marcos Maravi Percca**, **Universidade Federal de Juiz de Fora**, participated in the 2<sup>nd</sup> IMPA-InterPore Conference on Porous Media: Conservation Laws, Numerics and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 16<sup>th</sup> to 19<sup>th</sup>, 2016 and presented following poster: “**A Variational Approach to the Riemann Problem**”.

Rio de Janeiro, October 19<sup>th</sup>, 2016.

Alexei A. Mailybaev  
Organizing Committee

CERTIFICATE



Support





2<sup>nd</sup> IMPA-InterPore

# Conference on Porous Media

*Conservation Laws, Numerics and Applications*

IMPA, Rio de Janeiro, Brazil

October 16-19, 2016

We hereby certify that, **Ismael de Souza Ledoino**, **Laboratório Nacional de Computação Científica**, participated in the 2<sup>nd</sup> IMPA-InterPore Conference on Porous Media: Conservation Laws, Numerics and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 16<sup>th</sup> to 19<sup>th</sup>, 2016 and presented following poster: “**Algorithms for Riemann Problem Solution**”.

Rio de Janeiro, October 19<sup>th</sup>, 2016.

Alexei A. Mailybaev  
Organizing Committee

CERTIFICATE



Support



2<sup>nd</sup> IMPA-InterPore

# Conference on Porous Media

*Conservation Laws, Numerics and Applications*

IMPA, Rio de Janeiro, Brazil

October 16-19, 2016

We hereby certify that, **Jardel Vieira, IMECC**, participated in the 2<sup>nd</sup> IMPA-InterPore Conference on Porous Media: Conservation Laws, Numerics and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 16<sup>th</sup> to 19<sup>th</sup>, 2016 and presented following poster: “**On the Numerical Computation of Nontrivial Solutions of Two-Phase Flow in Porous Media Linked a Pseudo- Parabolic Equation with Dynamic Capillary Pressure**”.

Rio de Janeiro, October 19<sup>th</sup>, 2016.

Alexei A. Mailybaev  
Organizing Committee

CERTIFICATE



Support





2<sup>nd</sup> IMPA-InterPore

# Conference on Porous Media

*Conservation Laws, Numerics and Applications*

IMPA, Rio de Janeiro, Brazil

October 16-19, 2016

We hereby certify that, **Johannes Bruining, Delft University of Technology**, participated in the 2<sup>nd</sup> IMPA-InterPore Conference on Porous Media: Conservation Laws, Numerics and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 16<sup>th</sup> to 19<sup>th</sup>, 2016 and presented following poster: **“The effect of wetting on the relative permeability behavior and oil recovery”**.

Rio de Janeiro, October 19<sup>th</sup>, 2016.

Alexei A. Mailybaev  
Organizing Committee

CERTIFICATE



Support



2<sup>nd</sup> IMPA-InterPore

# Conference on Porous Media

*Conservation Laws, Numerics and Applications*

IMPA, Rio de Janeiro, Brazil

October 16-19, 2016

We hereby certify that, **John Alexander Pérez Sepúlveda, IMECC**, participated in the 2<sup>nd</sup> IMPA-InterPore Conference on Porous Media: Conservation Laws, Numerics and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 16<sup>th</sup> to 19<sup>th</sup>, 2016 and presented following poster: “**A Lagrangian-Eulerian Approximation Method for Balance Laws**”.

Rio de Janeiro, October 19<sup>th</sup>, 2016.

Alexei A. Mailybaev  
Organizing Committee

CERTIFICATE



Support





2<sup>nd</sup> IMPA-InterPore

# Conference on Porous Media

*Conservation Laws, Numerics and Applications*

IMPA, Rio de Janeiro, Brazil

October 16-19, 2016

We hereby certify that, **Juan Gabriel Galeano Delgado, IMECC**, participated in the 2<sup>nd</sup> IMPA-InterPore Conference on Porous Media: Conservation Laws, Numerics and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 16<sup>th</sup> to 19<sup>th</sup>, 2016 and presented following poster: **“Well-Posedness and Blow-Up of Global Solutions for a Nonlinear Transport Equation with Nonlocal Flux and Measure Data”**.

Rio de Janeiro, October 19<sup>th</sup>, 2016.

Alexei A. Mailybaev  
Organizing Committee

CERTIFICATE



Support



2<sup>nd</sup> IMPA-InterPore

# Conference on Porous Media

*Conservation Laws, Numerics and Applications*

IMPA, Rio de Janeiro, Brazil

October 16-19, 2016

We hereby certify that, **Luis Antonio Lopez Pena, Delft University of Technology**, participated in the 2<sup>nd</sup> IMPA-InterPore Conference on Porous Media: Conservation Laws, Numerics and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 16<sup>th</sup> to 19<sup>th</sup>, 2016 and presented following poster: **“A network model for the biofilm growth evolution in porous media and its effects on permeability and porosity”**.

Rio de Janeiro, October 19<sup>th</sup>, 2016.

Alexei A. Mailybaev  
Organizing Committee

CERTIFICATE



Support





2<sup>nd</sup> IMPA-InterPore

# Conference on Porous Media

*Conservation Laws, Numerics and Applications*

IMPA, Rio de Janeiro, Brazil

October 16-19, 2016

We hereby certify that, **Luis Fernando Lozano G.**, Instituto Nacional de Matemática Pura e Aplicada, participated in the 2<sup>nd</sup> IMPA-InterPore Conference on Porous Media: Conservation Laws, Numerics and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 16<sup>th</sup> to 19<sup>th</sup>, 2016 and presented following poster: “**The unusual effects of capillary pressure to solutions of Riemann problems**”.

Rio de Janeiro, October 19<sup>th</sup>, 2016.

Alexei A. Mailybaev  
Organizing Committee

CERTIFICATE



Support



2<sup>nd</sup> IMPA-InterPore

# Conference on Porous Media

*Conservation Laws, Numerics and Applications*

IMPA, Rio de Janeiro, Brazil

October 16-19, 2016

We hereby certify that, **Marcos Vinícius Cândido Henriques, Universidade Federal Rural do Semi-Árido**, participated in the 2<sup>nd</sup> IMPA-InterPore Conference on Porous Media: Conservation Laws, Numerics and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 16<sup>th</sup> to 19<sup>th</sup>, 2016 and presented following poster: **“Mesh generation for modeling flow through fractal porous media: a potential function approach”**.

Rio de Janeiro, October 19<sup>th</sup>, 2016.

Alexei A. Mailybaev  
Organizing Committee

CERTIFICATE



Support





2<sup>nd</sup> IMPA-InterPore

# Conference on Porous Media

*Conservation Laws, Numerics and Applications*

IMPA, Rio de Janeiro, Brazil

October 16-19, 2016

We hereby certify that, **Pablo Javier Antuna Benitez**, **Universidad Católica Nuestra Señora de la Asunción**, participated in the 2<sup>nd</sup> IMPA-InterPore Conference on Porous Media: Conservation Laws, Numerics and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 16<sup>th</sup> to 19<sup>th</sup>, 2016 and presented following poster: **“Traveling Waves With Internal Singular Point in Systems of Balance Laws”**.

Rio de Janeiro, October 19<sup>th</sup>, 2016.

Alexei A. Mailybaev  
Organizing Committee

CERTIFICATE



Support



2<sup>nd</sup> IMPA-InterPore

# Conference on Porous Media

*Conservation Laws, Numerics and Applications*

IMPA, Rio de Janeiro, Brazil

October 16-19, 2016

We hereby certify that, **Thiago Alves de Souza, Universidade Federal Rural do Rio de Janeiro**, participated in the 2<sup>nd</sup> IMPA-InterPore Conference on Porous Media: Conservation Laws, Numerics and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 16<sup>th</sup> to 19<sup>th</sup>, 2016 and presented following poster: **“Burgers equation and Conservation law”**.

Rio de Janeiro, October 19<sup>th</sup>, 2016.

Alexei A. Mailybaev  
Organizing Committee

CERTIFICATE



Support