



2nd IMPA-InterPore

Conference on Porous Media

Conservation Laws, Numerics and Applications

IMPA, Rio de Janeiro, Brazil

October 16-19, 2016

We hereby certify that, **Alex Hansen, Norwegian University of Science and Technology**, participated in the 2nd 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 16th to 19th, 2016 and presented a plenary talk: “**New Conservation Laws in Immiscible Two-Phase Flow in Porous Media**”.

Rio de Janeiro, October 19th, 2016.

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Organizing Committee

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We hereby certify that, **Aline Cristina da Rocha**, **Laboratório Nacional de Computação Científica**, participated in the 2nd 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 16th to 19th, 2016 and presented a plenary talk: **“A New Model for Flow in Shale-Gas Reservoirs Including Natural and Hydraulic Fractures: Application to Well Tests”**.

Rio de Janeiro, October 19th, 2016.

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We hereby certify that, **Amaury Alvarez Cruz, Universidad de la Habana**, participated in the 2nd 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 16th to 19th, 2016 and presented a plenary talk: **“The Riemann solution for low salinity carbonated waterflooding”**.

Rio de Janeiro, October 19th, 2016.

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We hereby certify that, **Aparecido Jesuino de Souza, Universidade Federal de Campina Grande**, participated in the 2nd 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 16th to 19th, 2016 and presented a plenary talk: “**Three-Phase Fluid Displacement in a Porous Media**”.

Rio de Janeiro, October 19th, 2016.

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We hereby certify that, **Cesar de Souza Eschenazi**, **Universidade Federal de Minas Gerais**, participated in the 2nd 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 16th to 19th, 2016 and presented a plenary talk: “**Wave Manifold Decomposition for a System of Two Conservation Laws**”.

Rio de Janeiro, October 19th, 2016.

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We hereby certify that, **Dan Marchesin**, Instituto Nacional de Matemática Pura e Aplicada, participated in the 2nd 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 16th to 19th, 2016 and presented a plenary talk: “Riemann problems: what for?”.

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We hereby certify that, **Eduardo Cardoso de Abreu, IMECC**, participated in the 2nd 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 16th to 19th, 2016 and presented a plenary talk: **“A Unified Computational and Analytic Approach on the Asymptotic Behavior of Relaxation Balance Laws with Applications in Porous Media Flow Models”**.

Rio de Janeiro, October 19th, 2016.

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We hereby certify that, **Grigori Chapiro**, **Universidade Federal de Juiz de Fora**, participated in the 2nd 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 16th to 19th, 2016 and presented a plenary talk: **“Traveling Wave Solutions Describing Combustion Waves in Porous Media”**.

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We hereby certify that, **Hermenegildo Borges de Oliveira, Universidade do Algarve**, participated in the 2nd 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 16th to 19th, 2016 and presented a plenary talk: “**On a turbulent k-epsilon model with applications in porous media**”.

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We hereby certify that, **Igor Mozolevski, Universidade Federal de Santa Catarina**, participated in the 2nd 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 16th to 19th, 2016 and presented a plenary talk: “**Goal-oriented a posteriori error estimates and mesh adaptation for two-phase problems**”.

Rio de Janeiro, October 19th, 2016.

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We hereby certify that, **Jesus Carlos da Mota, Universidade Federal de Goiás**, participated in the 2nd 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 16th to 19th, 2016 and presented a plenary talk: “**Multiple traveling waves combustion for a two phase flow through a porous medium**”.

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We hereby certify that, **Josué dos Santos Barroso**, **Laboratório Nacional de Computação Científica**, participated in the 2nd 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 16th to 19th, 2016 and presented a plenary talk: “**A New Sequential Computational Model for Upscaling Flow and Geomechanics in Nonlinear Elastic Jointed Rocks**”.

Rio de Janeiro, October 19th, 2016.

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We hereby certify that, **Leonardo Andrés Poveda Cuevas**, **Inst. de Matemática, Est. e Ciência da Computação**, participated in the 2nd 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 16th to 19th, 2016 and presented a plenary talk: **“Localized Harmonic Characteristic Basis Functions for MsFEM”**.

Rio de Janeiro, October 19th, 2016.

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We hereby certify that, **Marcio Arab Murad**, **Laboratório Nacional de Computação Científica**, participated in the 2nd 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 16th to 19th, 2016 and presented a plenary talk: **“A new class of methods for upscaling coupled flow and deformation in disordered nanoporous media”**.

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We hereby certify that, **Mary Pugh, University of Toronto**, participated in the 2nd 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 16th to 19th, 2016 and presented a plenary talk: “**Special Solutions in Smectic Electroconvection**”.

Rio de Janeiro, October 19th, 2016.

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We hereby certify that, **Moritz Reintjes**, **IMPA - Pós-Doutorando de Excelência**, participated in the 2nd 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 16th to 19th, 2016 and presented a plenary talk: “**Constraint Systems of Conservation Laws**”.

Rio de Janeiro, October 19th, 2016.

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We hereby certify that, **Pablo Castañeda Rivera**, Instituto Tecnológico Autónomo de **México**, participated in the 2nd 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 16th to 19th, 2016 and presented a plenary talk: **“Stability of WAG injection of three phase-flow in virgin reservoirs under general permeabilities”**.

Rio de Janeiro, October 19th, 2016.

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We hereby certify that, ***Panters Rodríguez Bermúdez, Universidade Federal Fluminense***, participated in the 2nd 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 16th to 19th, 2016 and presented a plenary talk: “**Vertical two-phase flow under the action of a Dirac delta source in a porous medium**”.

Rio de Janeiro, October 19th, 2016.

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We hereby certify that, **Paola Cunha Ferraz, IMECC**, participated in the 2nd 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 16th to 19th, 2016 and presented a plenary talk: “**A Multiscale Approach for Pressure-Velocity two-Phase Flow in High-Contrast Porous Media**”.

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We hereby certify that, **Vitor Manuel Martins de Matos, Universidade do Porto**, participated in the 2nd 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 16th to 19th, 2016 and presented a plenary talk: **“A class of conservation laws arising in flow in porous media”**.

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We hereby certify that, **Wanderson Jose Lambert, Universidade Federal de Alfenas**, participated in the 2nd 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 16th to 19th, 2016 and presented a plenary talk: **“Mathematical theory of two phase flow, and chemical species geochemical flow”**.

Rio de Janeiro, October 19th, 2016.

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