

CERTIFICATE

IMPA, August 1-4, 2017

Workshop on Conservation Laws and Applications

celebrating the 70th birthday of Dan Marchesin

We hereby certify that, **Adolfo Puime Pires**, **Universidade Estadual do Norte Fluminense**, participated in the Workshop on Conservation Laws and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from August 1st to 4th, 2017 and presented the following work: “**Mathematical Modeling of One-dimensional Oil Displacement by Combined Solvent-Thermal Flooding**”.

Rio de Janeiro, August 4th, 2017



Alexei A. Mailybaev
Organizing Committee



activity of



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We hereby certify that, **Alexei Mailybaev**, **Instituto Nacional de Matemática Pura e Aplicada**, participated in the Workshop on Conservation Laws and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from August 1st to 4th, 2017 and presented the following work: “**Non-local 1D conservation laws: when the shock wave is unstable**”.

Rio de Janeiro, August 4th, 2017



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We hereby certify that, **Amaury Alvarez Cruz, Universidad de la Habana**, participated in the Workshop on Conservation Laws and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from August 1st to 4th, 2017 and presented the following work:
“Resonant rarefaction and shock waves for a system of conservation laws”.

Rio de Janeiro, August 4th, 2017



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We hereby certify that, ***Aparecido Jesuino de Souza***, **Universidade Federal da Paraiba - João Pessoa**, participated in the Workshop on Conservation Laws and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from August 1st to 4th, 2017 and presented the following work: **“Recalling the Riemann problem for the polymer injection model in a three-phase flow in a porous medium”**.

Rio de Janeiro, August 4th, 2017



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We hereby certify that, **Cesar de Souza Eschenazi, Universidade Federal de Minas Gerais**, participated in the Workshop on Conservation Laws and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from August 1st to 4th, 2017 and presented the following work: “**Wave Manifold: Topology meets PDE**”.

Rio de Janeiro, August 4th, 2017



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We hereby certify that, **Dan Marchesin**, Instituto Nacional de Matemática Pura e Aplicada, participated in the Workshop on Conservation Laws and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from August 1st to 4th, 2017 and presented the following work: “**Towards automatic solvers of Riemann problems**”.

Rio de Janeiro, August 4th, 2017



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We hereby certify that, ***Eduardo Cardoso de Abreu, IMECC***, participated in the Workshop on Conservation Laws and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from August 1st to 4th, 2017 and presented the following work: “**COMPUTING NUMERICAL SOLUTIONS OF THE MODIFIED BUCKLEY-LEVERETT EQUATION WITH A DYNAMIC NONEQUILIBRIUM CAPILLARY PRESSURE MODEL**”.

Rio de Janeiro, August 4th, 2017



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We hereby certify that, **Fabio Pereira dos Santos**, **Universidade Federal do Rio de Janeiro**, participated in the Workshop on Conservation Laws and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from August 1st to 4th, 2017 and presented the following work: **“Semi-continuous thermodynamics theory for a multiphase and multicomponent reservoir simulation framework”**.

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We hereby certify that, **Frederico Furtado, University of Wyoming**, participated in the Workshop on Conservation Laws and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from August 1st to 4th, 2017 and presented the following work: **“Scaling behavior of stochastic, multiphase flow in porous media”**.

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We hereby certify that, **Grigori Chapiro, Universidade Federal de Juiz de Fora**, participated in the Workshop on Conservation Laws and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from August 1st to 4th, 2017 and presented the following work:
“TRAVELING WAVE SOLUTIONS DESCRIBING COMBUSTION WAVES IN POROUS MEDIA”.

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We hereby certify that, *Ismael de Souza Ledoino*, **Laboratório Nacional de Computação Científica**, participated in the Workshop on Conservation Laws and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from August 1st to 4th, 2017 and presented the following work: “**Numerical Analysis of Traveling Waves in Flow of Porous Media**”.

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We hereby certify that, **Jesus Carlos da Mota, Universidade Federal de Goiás**, participated in the Workshop on Conservation Laws and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from August 1st to 4th, 2017 and presented the following work: **“Cauchy Problem for a Model of Combustion in a Porous Medium with Several Parallel Layers”**.

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We hereby certify that, **Johannes Bruining, Delft University of Technology**, participated in the Workshop on Conservation Laws and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from August 1st to 4th, 2017 and presented the following work: **“THE EFFECT OF SALINITY ON IMMISCIBLE DISPLACEMENT RECOVERY”**.

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We hereby certify that, **Kevin Zumbrun, Indiana University**, participated in the Workshop on Conservation Laws and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from August 1st to 4th, 2017 and presented the following work: **“A Stable Manifold Theorem for a class of degenerate evolution equations and decay of kinetic shock layers”**.

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We hereby certify that, **Luis Fernando Lozano G.**, Instituto Nacional de Matemática Pura e Aplicada, participated in the Workshop on Conservation Laws and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from August 1st to 4th, 2017 and presented the following work: “**The effects of capillarity diffusion on non strictly hyperbolic systems of conservation laws**”.

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We hereby certify that, **Marcelo Martins dos Santos, IMECC**, participated in the Workshop on Conservation Laws and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from August 1st to 4th, 2017 and presented the following work: “**Riemann problems with delta-shock waves**”.

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We hereby certify that, **Marcus Vinícius Sarkis Martins, Worcester Polytechnic Institute**, participated in the Workshop on Conservation Laws and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from August 1st to 4th, 2017 and presented the following work: “**Phase-field dynamic fracture model and discretization**”.

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We hereby certify that, **Moritz Reintjes**, Instituto Superior Tecnico - Universidade de Lisboa, participated in the Workshop on Conservation Laws and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from August 1st to 4th, 2017 and presented the following work: “**Do General Relativistic Shock Wave Interactions Create Regularity Singularities in Spacetime?**”.

Rio de Janeiro, August 4th, 2017



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We hereby certify that, **Pablo Castañeda Rivera**, Instituto Tecnológico Autonomo de Mexico, participated in the Workshop on Conservation Laws and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from August 1st to 4th, 2017 and presented the following work: “**On geometric issues for systems of Conservation Laws**”.

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We hereby certify that, **Theodore D. Drivas, Princeton University**, participated in the Workshop on Conservation Laws and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from August 1st to 4th, 2017 and presented the following work: “**Anomalous dissipation and spontaneous stochasticity in Burgers Equation**”.

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We hereby certify that, **Vitor Manuel Martins de Matos, Universidade do Porto**, participated in the Workshop on Conservation Laws and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from August 1st to 4th, 2017 and presented the following work:
“Non local solutions in conservation laws”.

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We hereby certify that, **Wanderson Jose Lambert, Universidade Federal de Alfenas**, participated in the Workshop on Conservation Laws and Applications, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from August 1st to 4th, 2017 and presented the following work: “**Mathematical theory of geochemical injection problems for multicomponent two phase flow in porous media**”.

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