

# Event Schedule

	Monday 8 <sup>th</sup>	Tuesday 9 <sup>th</sup>	Wednesday 10 <sup>th</sup>	Thursday 11 <sup>th</sup>
08:00 – 09:00	Welcome Reception			
<i>Chair</i>	<i>Paulo A. Liboni Filho</i>	<i>Márcia Federson</i>	<i>Filippo Dell'Oro</i>	<i>Reinhard Racke</i>
09:00 – 09:40	Opening Session	<b>Roberto Triggiani</b>	<b>Carole Rosier</b>	<b>Alexandre Nolasco</b>
09:40 – 10:20		Coffee Break + Posters	Coffee Break + Posters	Coffee Break + Posters
<i>Chair</i>	<i>Marcio A. Jorge Silva</i>	<i>Márcia Federson</i>	<i>Filippo Dell'Oro</i>	<i>Reinhard Racke</i>
10:20 – 11:00	<b>Irena Lasiicka</b>	<b>Ernesto Birgin</b>	<b>Lionel Rosier</b>	<b>Tomás Caraballo</b>
11:00 – 11:40	<b>Reinhard Racke</b>	<b>To Fu Ma</b>	<b>Felipe Linares</b>	<b>Regina C. C. de Almeida</b>
11:40 – 14:00	Lunch			
<i>Chair</i>	<i>Rodrigo N. Monteiro</i>	<i>Maurício Sepúlveda</i>	<i>Hugo D. F. Sare</i>	<i>Regina C. C. de Almeida</i>
14:00 – 14:40	<b>Filippo Dell'Oro</b>	<b>Márcia Federson</b>	<b>Salim Messaoudi</b>	<b>Maurício Sepúlveda</b>
14:40 – 15:20	<b>Hugo D. F. Sare</b>	<b>Wladimir Neves</b>	<b>Fábio Natali</b>	<b>Cibele Ladeia</b>
15:20 – 16:00	<b>Paulo N. S. Huertas</b>	<b>María R. Astudillo Rojas</b>	<b>Roberto Capistrano</b>	<b>César A. H. Melo</b>
16:00 – 16:40	Coffee Break	Coffee Break + Posters	Coffee Break + Posters	Coffee Break + Posters
16:40 – 17:20	<b>Rodrigo Vejar</b>	<b>Wellington Corrêa</b>	<b>Gleb Doronin</b>	
17:20 – 18:00	<b>Ahmet Özkan Özer</b>	Honor Session	<b>Yuxuan Chen</b>	
18:00 – 19:20				
19:30 – 22:00		Photo session + Cocktail	Conference Dinner	

# Speakers and Lecture Sessions List

## Monday, June 8<sup>th</sup>

- 10:20 – 11:00 **Irena Lasiecka** (University of Memphis and University of Virginia - USA)  
*Can One Control Large Sustained Oscillations in Flow-Structure Interactions?*
- 11:00 – 11:40 **Reinhard Racke** (University of Konstanz - Germany)  
*Regularization and stabilization of magneto-elastic systems*
- 14:00 – 14:40 **Filippo Dell’Oro** (Politecnico di Milano - Italy)  
*The Gurtin-Pipkin heat equation: What’s left*
- 14:40 – 15:20 **Hugo D. Fernández Sare** (Universidade Federal de Juiz de Fora - Brazil)  
*Stability of thermoelastic plates with voids and microtemperatures*
- 15:20 – 16:00 **Paulo Nicanor Seminario Huertas** (Universidad Politécnica de Madrid - Spain)  
*Asymptotic behavior and global attractors for Green-Lindsay plates on nonlinear foundations*
- 16:40 – 17:20 **Rodrigo Vejar Asem** (Universidade de La Serena - Chile)  
*Stability and Blow-up for a Suspension Bridge Plate Model with Fractional Damping and Memory Effects using an SBP-SAT Finite Differences Scheme*
- 17:20 – 18:00 **Ahmet Özkan Özer** (Western Kentucky University - USA)  
*Control Design, Stability, and Structure-Preserving Approximation of a SCOLE-Type Two-Beam System with Interior Mass and Rotational Inertia*

## Tuesday, June 9<sup>th</sup>

- 09:00 – 09:40 **Roberto Triggiani** (University of Memphis and University of Virginia - USA)  
*Uniform stabilization of the Boussinesq System in Besov spaces with boundary-based, localized, finite dimensional, fluid and thermal feedback controllers*
- 10:20 – 11:00 **Ernesto Julian Goldberg Birgin** (Universidade de São Paulo - Brazil)  
*Developing Optimization Methods: A Theoretical and Practical Approach*
- 11:00 – 11:40 **To Fu Ma** (Universidade de Brasília, Brazil)  
*Dynamics of the Gao beam and related models*
- 14:00 – 14:40 **Márcia Federson** (Universidade de São Paulo - Brazil)  
*What’s new under the sun about non-absolute integrals?*
- 14:40 – 15:20 **Wladimir Neves** (Universidade Federal do Rio de Janeiro - Brazil)  
*Existence of Complementary and Variational Weak Solutions to Obstacle Problems for a Quasilinear Wave Equation*
- 15:20 – 16:00 **María R. Astudillo Rojas** (Universidade Federal do Paraná - Brazil)  
*On the stability of a thermoelastic transmission problem with Kelvin-Voigt Damping*
- 16:40 – 17:20 **Wellington José Corrêa** (Universidade Tecnológica Federal do Paraná - Brazil)  
*Finite Time Extinction and Stabilization for the Defocusing Schrödinger Equation*

## Wednesday, June 10<sup>th</sup>

- 09:00 – 09:40 **Carole Rosier** (University of Littoral - France)  
*Modeling of underground flows. Application to reactive transport*
- 10:20 – 11:00 **Lionel Rosier** (Université du Littoral Côte d'Opale - France)  
*Exact controllability of anisotropic 1D partial differential equations in spaces of analytic functions*
- 11:00 – 11:40 **Felipe Linares** (Instituto de Matemática Pura e Aplicada - Brazil)  
*On decay and regularity of solutions of the Benjamin-Ono equation*
- 14:00 – 14:40 **Salim Messaoudi** (University of Sharjah - UAE)  
*On some thermoelastic Bresse Systems free of the second spectrum*
- 14:40 – 15:20 **Fábio Natali** (Universidade Estadual de Maringá - Brazil)  
*Instability of the peaked traveling wave in a local model for shallow water waves*
- 15:20 – 16:00 **Roberto Capistrano Filho** (Universidade Federal de Pernambuco, Brazil)  
*Long-time dynamics of water-wave models*
- 16:40 – 17:20 **Gleb Germanovitch Doronin** (Universidade Estadual de Maringá - Brazil)  
*ZK flow in a channel with a low-regularity wavemaker*
- 17:20 – 18:00 **Yuxuan Chen** (School of Mathematical Sciences, Heilongjiang University - China)  
*Complex Ginzburg-Landau equation with arbitrary positive initial energy*

## Thursday, June 11<sup>th</sup>

- 09:00 – 09:40 **Alexandre Nolasco de Carvalho** (Universidade de São Paulo - Brazil)  
*Gradient structure of non-autonomous cascade systems*
- 10:20 – 11:00 **Tomás Caraballo** (Universidad de Sevilla, Spain)  
*Dynamics of stochastic differential equations with memory driven by white or colored noise*
- 11:00 – 11:40 **Regina Célia Cerqueira de Almeida** (Laboratório Nacional de Computação Científica - Brazil)  
*Predicting the Unpredictable: Mathematical and Computational Frameworks for Tumor Modeling*
- 14:00 – 14:40 **Mauricio A. Sepúlveda-Cortés** (Universidad de Concepción - Chile)  
*Conservative numerical scheme for dissipative wave equation with fractional derivative damping*
- 14:40 – 15:20 **Cibele Aparecida Ladeia** (Universidade Federal do Rio Grande do Sul - Brazil)  
*Numerical Modeling of Radiative-Conductive Heat Transfer in a Two-Layer Slab*
- 15:20 – 16:00 **César Adolfo Hernández Melo** (Universidade Estadual de Maringá - Brazil)  
*Spectral stability of stationary reaction diffusion-degenerate Nagumo fronts*

# Poster Presentations Lists

**Tuesday, June 9<sup>th</sup>**

## Morning Session

**Ana Clara de Pontes Martins** (Universidade Estadual Paulista Júlio de Mesquita Filho - Brazil)  
*Wolbachia-infected sex-biased release and its impact on dengue transmission*

**Bella Figliaggi** (Universidade de São Paulo, Brazil)  
*Stationary Measures for Circle Maps with Additive Noise*

**Bruno Edson dos Santos** (Universidade Estadual de Londrina - Brazil)  
*A pairwise clustering method for irregular polygons*

**Cintya Akemi Okawa** (Universidade Estadual de Maringá - Brazil)  
*Critical Wave Equation with Nonlinear  $E(t)u_t$  Damping*

## Afternoon Session

**Eduardo Rosario** (Universidade Estadual Paulista Júlio de Mesquita Filho - Brazil and Ghent University - Belgium)  
*Computational modeling of the spread of vector-borne diseases using a continuous spatiotemporal model with a fractional Laplacian*

**Elvis F. Avelino** (Universidade Estadual de Maringá - Brazil)  
*Dispersive wave propagation in a channel*

**Isabela Caroline de Paula** (Universidade Estadual de Londrina - Brazil)  
*Application of Anisotropic Diffusion for Fingerprint Image Enhancement with Support from the ContExt Software*

**José Guilherme Simion Antunes** (Universidade Federal da Integração Latino-Americana - Brazil)  
*On the Decay of Coupled Semilinear Wave Systems with Exponential Sources and Localized Damping*

**Wednesday, June 10<sup>th</sup>**

## Morning Session

**Josiane Alves Coutinho** (Universidade Estadual de Londrina - Brazil)  
*Lie Brackets and the Geometry of the Frobenius Theorem*

**Júlia Pscheidt** (Universidade Federal de Santa Catarina - Brazil)  
*On the gap condition for inertial manifold for nonautonomous systems with exponential splitting*

**Kalel Bispo Gimenez de Araujo** (Universidade de São Paulo - Brazil)  
*Shape Optimization in Elliptic Partial Differential Equations*

**Layanne Raquel Lobato Camargo** (Universidade Estadual de Maringá - Brazil)

*Exponential stability for the coupled Klein-Gordon-Schrödinger equations with locally distributed viscoelastic and frictional dissipative effects*

### Afternoon Session

**Leonardo Gustavo Ronchin Alves** (Universidade Estadual de Maringá - Brazil)

*Unique continuation for a non-homogeneous Timoshenko system with localized damping*

**Maria Eduarda Ribeiro Martins** (Universidade Federal de Santa Catarina - Brazil)

*Polynomial Energy Decay for a Damped Plate-Type Equation with Potential*

**Maria Verônica Bartmeyer** (Universidade Estadual de Maringá - Brazil)

*Global Solvability in Gevrey Classes for Certain Partial Differential Operators on the Torus*

**Matheus Sadao Susuki** (Universidade Estadual de Londrina - Brazil)

*Effects of group topology and control inputs on controllability of right-invariant systems*

## Thursday, June 11<sup>th</sup>

### Morning Session

**Naísa Camila Garcia** (Universidade Estadual de Londrina - Brazil)

*Existence and Asymptotic Behavior for a generalized hyperbolic equation involving the Grushin operator*

**Paulo Fernando Mercadante Damazio** (Universidade Estadual de Maringá - Brazil)

*Attractors for the Lamé System with vector nonlinearity under critical Sobolev growth*

**Pedro Diegues Domenici** (Universidade Estadual de Londrina - Brazil)

*Selective incompatibility constraint generation for the multi-source capacitated facility location problem with customer incompatibilities*

**Rafael Gabardo da Camara** (Universidade Estadual de Londrina - Brazil)

*Upper Semicontinuity Results for an Extensible Beam Model with Nonlocal Structural Damping*

### Afternoon Session

**Sheyla Silva Marinho Araújo** (Universidade de Brasília, Brazil)

*Stability of a thermoelastic Bresse beam with memory*

**Vinícius Narciso Fernandes** (Universidade Estadual Paulista Júlio de Mesquita Filho - Brazil)

*Strategic Vaccination: Highlights the comparison between high-risk and low-risk groups and the effectiveness of targeted immunization*

**Xiaoqing Yang** (Lanzhou University - China)

*Nonlocal Kirchhoff-type Parabolic Equations in  $L^2$ : Reduction to finite dimension*

**William Gutierrez Ccari** (Universidade Estadual de Maringá - Brazil)  
*Dynamical system of characteristic 0*