

# Events



# Community



## LRI Board

Demeter Krupka  
Head of LRI

Ján Brajerčík  
University of Prešov  
(Slovakia)

Milan Demko  
University of Prešov  
(Slovakia)

Zbyněk Urban  
Technical University of Ostrava  
(Czech Republic)

Nicoleta Voicu  
Transilvania University of Brasov  
(Romania)

## Guest Lecturers

Ian M. Anderson (USA)  
George Bluman (Canada)  
Salvatore Capozziello (Italy)  
Hernán Cendra (Argentina)  
Piotr Chrusciel (France)  
Mark J. Gotay (Canada)  
Graham Hall (UK)  
Peter Hydon (UK)  
Jerzy Kijowski (Poland)  
Yvette Kosmann-Schwarzbach (France)

Joseph Krasilshik (Russia)  
Demeter Krupka (Slovakia)  
Olga Krupková (Czech Rep.)  
Valentin Lychagin (Norway)  
Jan Novotný (Czech Rep.)  
Peter Olver (USA)  
Serge Preston (USA)  
Geoff Prince (Australia)  
Gennadi Sardanashvili (Russia)  
Yuri L. Sachkov (Russia)



# Publications

books and research articles  
with a strong impact on  
contemporary research



[www.lepageri.eu/publications](http://www.lepageri.eu/publications)

# Research Areas

## Global Variational Geometry

Variational functionals on fibred spaces and Grassmann fibrations  
Variational sequences and applications  
The Sonin-Douglas problem

## Geometric Mechanics

Variational forces  
Higher-order mechanics  
The inverse problem of the calculus of variations

## Mathematical Physics

Variational foundations of the general relativity theory  
Natural Lagrange structures  
Symmetries and conservation laws

## Control and Optimization

Geometric control theory  
Mechanical models

## Differential Geometry

Finsler structures and generalisations  
Jet structures and differential invariants  
Higher-order velocities and contact elements

