

# *The Ninth Czech-Israeli Workshop on Functional Differential Equations*

July 9-13, 2018, Brno, Czech Republic

## PROGRAM

### Monday, July 9

10:00 – 11:00

**Pavel Řehák**

*The Karamata integration theorem on time scales and its applications  
in dynamic and difference equations*

11:00 – 12:00

**Jiří Šremr**

*On positive periodic solutions to second-order differential equations  
with sub-linear non-linearities*

12:00 – 13:00

Lunch

13:00 – 14:00

**András Rontó**

*On approximate solution of boundary value problems using polynomial  
approximations*

14:00 – 14:30

**Simona Fišnarová**

*Oscillation of second order half-linear neutral differential equations  
without commutativity in deviating arguments*

## Tuesday, July 10

10:00 – 11:00 **Petr Girg**

*Turbulent flow in porous medium - history, mathematical models, experiments on real media, maximum principle*

11:00 – 12:00 **Lukáš Kotrla**

*Nonuniqueness of solutions of initial-value problems for parabolic  $p$ -Laplacian and speed of propagation*

12:00 – 13:00 Lunch

13:00 – 14:00 **Alexander Domoshnitsky**

*Stability of third order delay differential equation*

14:00 – 14:30 **Petr Liška**

*Asymptotic problems for second order functional differential equations*

## Wednesday, July 11

10:00 – 11:00 **Maria Guadalupe Morales Macias**

*Fractional integral and differential operators on Henstock-Kurzweil integrable distributions*

11:00 – 12:00 **Svatoslav Staněk**

*Periodic problem for three-term fractional differential equations*

12:00 – 13:00 Lunch

13:00 – 16:00 **Poster Session**

Marina Bershadsky

Marcia Federson

Yulia Mizgireva

Olga Pinhasov

Vita Pylypenko

Vladimir Raichik

## Thursday, July 12

- 10:00 – 11:00      **Sulkhan Mukhigulashvili**  
*On the periodic problem for second order integro-differential equations*
- 11:00 – 12:00      **Robert Hakl**  
*Theorems on functional differential inequalities and their applications*
- 12:00 – 13:00      Lunch
- 13:00 – 16:00      **Interactive session**  
*Open problems, further research, discussion*

## Friday, July 13

- 10:00 – 14:00      **Excursion**