

INTERNATIONAL BIOPHYSICS SCHOOL  
"ACADEMICIAN RADOSLAV K. ANDJUS"  
(NERKA)

# MECHANOBIOLOGY

OCTOBER 6 – 8, 2018 | KOTOR, MONTENEGRO

FROM ION CHANNELS TO BIOMATERIALS  
ANIMAL AND PLANT SYSTEMS  
BIOPHYSICAL TECHNIQUES OF ANALYSIS

International Biophysical School "Academician Radoslav K. Andjus" (NERKA) was established in honor of R.K. Andjus (1926-2003) an internationally recognized scientist from the University of Belgrade, a member of Montenegrin and Serbian academies of sciences and arts and one of the founders of Institute for Marine Biology in Kotor. The School is traditionally organized by the **Biophysical Society of Serbia** with support of **International Union for Pure and Applied Biophysics (IUPAB)**, **European Biophysical Societies' Association (EBSA)**, **International Brain Research Organization (IBRO)** and **COST Action EuroCellNet**.

Venue:

Institute for Marine  
Biology



*Stipends with registration fee  
waivers available*

## ORGANIZING COMMITTEE:

**Pavle Andjus**, Belgrade, RS

**Ksenija Radotić**, Belgrade, RS

**Boris Martinac**, Sydney, AUS

**Mirko Djurović**, Kotor, MN

## INVITED SPEAKERS:

**Eduardo Perozo**, USA

**Yannis Missirlis**, Greece

**David Beech**, UK

**Bailong Xiao**, China

**Keiji Naruse**, Japan

**Eric Honoré**, France

**Rhuma Syeda**, USA

**Vladimir Parpura**, USA

**Tanja Dučić**, Spain



Contact & info:

clm@bio.bg.ac.rs

<http://clm.bio.bg.ac.rs/news/>



**IUPAB**  
CONNECTING THE  
WORLD OF BIOPHYSICS



**COST**  
EUROPEAN COOPERATION  
IN SCIENCE AND TECHNOLOGY



## **Important facts**

### ***Travel:***

the venue is reachable by 3 international airports: Tivat (15 min by car), Podgorica (1.5h), Dubrovnik (~3h with border crossing)

### ***Accommodation:***

many opportunities for economical accommodation in the vicinity of the Institute from private villas for rent to small hotels

### ***Duration:***

3 days

### ***Lecture hall:***

50+ persons

### ***Method:***

tutorial lectures, round table discussions, student posters

### ***Social events:***

excursion of the Boka bay; diner at the seacoast

### ***Registration fee:***

200 €

**Stipends with registration fee waivers available**

*Apply with short CV and motivation letter to the mail below*

**Application deadline June 15<sup>th</sup>, 2018**

### ***For further info and applications contact:***

[clm@bio.bg.ac.rs](mailto:clm@bio.bg.ac.rs)

<http://clm.bio.bg.ac.rs/2018/04/04/nerka7-mechanobiology/>



scan QR code

**Saturday, 06 October 2018**

15:00 – 16:00 *Registration and snacks*

16:00 Welcome address

16:30 – 17:30

**Eduardo Perozo, USA**, „Mechanosensitive ion channel structure & function“

17:30 – 19:00

**Yannis Missirlis, Greece**: “Tissue Morphogenesis and Mechanoepigenetics”.

20:00 *Dinner – get together and meet the speaker*

**Sunday, 07 October 2018**

**Mechanosensitive ion channels**

08:00 – 09:00 *On site breakfast and snacks get together*

09:00 – 10:30

**David Beech, UK**: „Orai1 and TRPC1/4/5 channels“

10:30 – 12:00

**Boris Martinac, Australia**: " Piezo1&2 channels – Lecture 2"

12:00 – 14:00 *Lunch brake*

14:00 – 15:30

**Rhuma Syeda, USA**, „Mechanosensitivity of Piezo1 ion channels“

15:30 – 17:00

**Keiji Naruse, Japan**: “TRPV4 channels”

17:00 – 18:30

**Aleksandra Mitrović, Serbia**: „Response to mechanostimulation in wood“

20:00 *Dinner – get together and meet the speakers*

**Monday, 08 October 2018**

**Mechanisms across nature and techniques**

08:00 – 09:00 *On site - breakfast and snacks get together*

09:00 – 10:30

**Eric Honoré, France:** “Molecular biophysics of mechano-transduction”

10:30 – 12:00

**Vladimir Parpura, USA:** „Rheology in astrocytes“

12:00 – 14:00 *Lunch brake*

14:00 – 15:30

**Tanja Dučić, Spain:** „Synchrotron-based microscopy of cytoskeletal mechanostructures“

15:30 – 17:00

**Gabor Steinbach, Szeged:** „DPLSM in studies of cell wall order in plant mechanical stress“

17:00 – 18:30

**Jasmina Popović, Serbia:** “Mechanical stress in trees”

18:30 – 19:30

**Wrap up discussion panel** – „Translational value of mechanobiology“ (moderators B. Martinac, Ksenija Radotić, Pavle Andjus)

20:00 *Farewell Dinner*