

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 scientists 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



## ORGANIZING COMMITTEE:

**Pavle Andjus**, **Ksenija Radotić**, Serbia,

**Boris Martinac**, Australia, **Mirko Djurović**, Montenegro

## INVITED SPEAKERS:

**Eduardo Perozo**, USA

**Yannis Missirlis**, Greece

**David Beech**, UK

**Bailong Xiao**, China

**Keiji Naruse**, Japan

**Eric Honoré**, France

**Ruhma Syeda**, USA

**Vladimir Parpura**, USA

**Tanja Dučić**, Spain

**Aleksandra Mitrović**, Serbia

**Gabor Steinbach**, Hungary

**Jasmina Popović**, Serbia

**Massimo Vassalli**, Italy



Contact & info:

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

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



International Biophysics School  
“Academician Radoslav K. Andjus” (NERKA)

# Mechanobiology

October 6 – 8, 2018 | Kotor, Montenegro



*Venue:*  
**Institute for Marine Biology, Kotor, Montenegro**

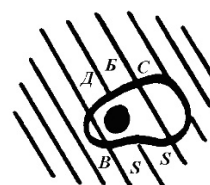


*Organizers:*

**Pavle Andjus** (Belgrade, RS)  
**Boris Martinac** (Sydney, AUS)

**Ksenija Radotić** (Belgrade, RS)  
**Mirko Djurović** (Kotor, MN)

*Supported by:*



## **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:***

For the accommodation arrangements you are welcome to contact Miro & Sons in Kotor on this email: [info@miroandsons.com](mailto:info@miroandsons.com), as well as to use other booking means: there 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 €

**[Registration fee waiver still available upon request](#)**

### ***For further info 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:** „Endothelial Piezo1 and shear stress sensing“

10:30 – 12:00

**Massimo Vassalli, Italy:** "Role of membrane lipids in Piezo1 mediated cellular mechanotransduction"

12:00 – 14:00 *Lunch brake*

14:00 – 15:30

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

15:30 – 17:00

**Keiji Naruse, Japan:** “Mechanomedicine”

17:00 – 18:30

**Aleksandra Mitrović, Serbia:** „Tension or compression – plants or structural engineers “

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

<b>Monday, 08 October 2018</b>
--------------------------------

## **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 break*

14:00 – 15:30

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

15:30 – 17:00

**Gabor Steinbach, Hungary:** „Differential polarization imaging using confocal and re-scan confocal microscopes“

17:00 – 18:30

**Jasmina Popović, Serbia:** “Responses to mechanical stimuli – chemistry of reaction wood”

18:30 – 19:30

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

20:00 *Farewell Dinner*