



UNIVERSITY OF  
DUBROVNIK  
Department for  
Aquaculture,  
Ćira Carića 4,  
20000 Dubrovnik,  
Croatia



BABES-BOLYAI  
UNIVERSITY,  
Biomolecular Physics  
Department,  
Kogalniceanu 1, RO-  
400084 Cluj-Napoca,  
Romania



in  
cooperation  
with



B&W Tek Inc.  
19 Shea Way, Newark, DE  
19713, USA  
[www.bwtek.com](http://www.bwtek.com)

is pleased to announce

## International Exploratory Workshop Shedding Laser Light on the Adriatic Seawater Environment

October 23, 2015,

Time: 9:00 AM

Place: University of Dubrovnik, Department of Aquaculture, Ćira Carića 4, 20000 Dubrovnik  
**Conference hall - Amphitheater**

The aim of the workshop is to bring together scientists from aquaculture, marine biology, chemistry, physics, ecology, engineering, as well as corporate social and economic responsible who have joined forces in the quest for novel approaches in environmental control employing the latest applications of laser Raman spectroscopy to improve the seafood and seawater control and environmental monitoring. Recent advances in the biological sciences and aquaculture have led to an increasing demand for real time and minimally invasive chemical and structural information on seawater, seafood, marine microorganisms and their environment. Due to its unique fingerprinting capability, Raman spectroscopy plays a significant role in marine ecosystems characterization, chemical composition monitoring and potential bio-toxins or pollutants detection and monitoring. The second workshop of Raman spectroscopy applied in aquaculture field aims to highlight further advances in state of the art and emerging environmental applications. The event will be jointly organized with the B&W Tek Inc., an advanced instrumentation company producing optical spectroscopy and laser systems, to explore the performance of the handheld/portable Raman equipment, with the unique advantage of the noble metal nanoparticles for enhancing the spectral Raman signal from various marine samples. Biotoxins assessment, seawater and seafood evaluation and monitoring will be discussed within a demo session. Translational knowledge for monitoring programs will be assessed. We look forward to welcoming you to the BWTEK Raman Workshop with applications on seawater, seafood, microorganisms and marine toxins, in Dubrovnik, 2015.

The Organizers.

## Exploratory Workshop Program

9.00-9.15	SERS spectroscopy applications for seawater, cyanobacteria, microalga, seafood, and marine toxins assessment; A short overview	Dr. Simona Cîntă Pînzaru Babes-Bolyai University of Cluj-Napoca, Romania; Senior Scientist, NEWFELPRO, Dubrovnik, Croatia
9.15-9.30	Brief Presentation: compact/portable Raman spectroscopy instruments and their applications	Daniel Barchewitz B&W Tek Inc., USA
9.30-9.45	Natural products from marine invertebrates	Dr. sc. Sanja Tomšić, University of Dubrovnik, Croatia
9.45-10.00	Report on Gymnodimine and Spirolide in aquaculture mussel during DSP toxicity in Mali Ston Bay	Dr. sc. Ivana Ujević, Institute of Oceanography and Fisheries, Split, Croatia
10.00-10.15	Possible occurrence of palytoxin toxicity	Dr.sc. Živana Ninčević Gladan, Ivana Ujević, Institute of Oceanography and Fisheries, Split, Croatia
10.15-10.30	Nanoparticles for water purification	Dr. Monica Venter, Babes-Bolyai University, Dept. of Chemistry and Chemical Eng. Cluj-Napoca, Romania
10.30-10.45	Electron microscopy investigations (TEM and SEM) on nanoparticles - cell surface marriage	Dr. Lucian Barbu-Tudoran, INCDTIM –Cluj-Napoca; Electron Microscopy Centre, Babes-Bolyai University,; Cluj-Napoca, Romania
10.45-11.00	Coffee break and discussions	
11.00 -13.30	Experimental tests: Assessing the potential of portable /hand held Raman spectrometers in controlling and monitoring seawater and seafood	Daniel Barchewitz B&W Tek Inc., USA
13.30.	Joint Lunch. Discussions. Partnership assessment for the upcoming Hrorizon 2020 calls. Team building.	



Scientists and companies working in the related topics are welcome to subscribe and submit tentative title and a brief abstract (max. 200 words) for discussions in the extended program and experimental DEMO. Feel free to bring samples with you! Submit your topic to any e-mail contact addresses of the organizers.

**We are pleased to announce that the registration is free of charge!**

**Registration deadline: September 25, 2015, 24.00 (CET).**

### Organizers:

#### B&W Tek Inc..

19 Shea Way, Newark, DE 19713, USA

[www.bwtek.com](http://www.bwtek.com)

Daniel Barchewitz

danielb@bwtek.com | [www.bwtek.com](http://www.bwtek.com)

#### Professor Dr. Branko Glamuzina

Head of Department for Aquaculture

University of Dubrovnik

University of Dubrovnik, Ćira Carića 4, 20000

Dubrovnik, Croatia;

#### Babes-Bolyai University

Biomolecular Physics Department

Professor assoc., Dr. Simona Cîntă Pînzaru

Senior Scientist in the NEWFELPRO Program,

Kogalniceanu 1, RO-400084 Cluj Napoca

<http://www.phys.ubbcluj.ro/raman/group.htm>

**Contact:** Professor Dr. Branko Glamuzina (E-mail: [branko.glamuzina@unidu.hr](mailto:branko.glamuzina@unidu.hr)); Dr. Simona Pinzaru (e-mail: [simonapinzaru@gmail.com](mailto:simonapinzaru@gmail.com)); Daniel Barchewitz (e-mail: [danielb@bwtek.com](mailto:danielb@bwtek.com)).