



"Ss. Cyril and Methodius" University in Skopje
Faculty of Natural Sciences and Mathematics
Republic of Macedonia



Humboldt and
DAAD Club
Macedonia

University von / Supported by



Alexander von Humboldt
Stiftung/Foundation

CONFERENCE PROGRAMME

April 20 – 23, 2018 Ohrid, R. Macedonia



HUMBOLDT KOLLEG 2018

*At the door of European Union: The role of the science and
research for sustainable development of the Balkan region*

19 April 2018 (Arrival in Skopje)

OPENING CEREMONY (Skopje) MACEDONIAN ACADEMY OF SCIENCES AND ARTS (bul. Krste Misirkov No. 2, Skopje)

18:00-18:30 **Registration**

18:30-19:00

- **Prof. Dr. Taki Fiti**
President of Macedonian Academy of Sciences and Arts
- **Prof. Dr. Renata Deskoska**
Minister for education and science of R. Macedonia
- **Mr. Thomas Gerberich**
Ambassador of Germany in R. Macedonia
- **Prof. Dr. Nikola Jankulovski**
Rector of the University "Ss Cyril and Methodius" in Skopje
- **Prof. Dr. Blazo Boev**
Rector of the University "Goce Delcev" in Stip

19:00 **Prof. Dr. Valentin Mirceski**
President of the Humboldt and DAAD Club-Macedonia
ALEXANDER VON HUMBOLDT FOUNDATION
-in my view-

19:30 **Welcome reception**

20 April 2018

9:00-12:00 Travel from Skopje to Ohrid
12:00-14:00 Registration and Lunch

14:00 WORKING PROGRAMME (Ohrid)

Chair: Prof. Dr. Valentin Mirceski
President of the Humboldt and DAAD Club-Macedonia
Prof. Dr. Elena Dumova (former vice-rector)
(Macedonia)
Academic cooperation between Macedonia and Germany

Session 1
HUMBOLDT COMMUNITY: CONTRIBUTIONS, EXPERIENCES, CHALLENGES

(Presidents or representatives of associations)

14:30 **Prof. Dr. Giacomo de Angelis** (Italy)
A bridge between the two shores of the Mediterranean: the Humboldt Alumni Network

14:50 **Prof. Dr. Ilza Paleva** (Bulgaria)
Humboldt Union in Bulgaria: achievements and perspectives

15:10 *Coffee break*

15:30 **Prof. Dr. Jasminka Markovic-Ipkovski** (Serbia)
Contribution of Humboldtians to scientific progress in Serbia in the past 25 years

15:50 **Prof. Dr. Marwan Moussa** (Jordan)
21 Years of academic & cultural cooperation & networking: partnership in changing communities
16:10 **Prof. Dr. Mile Ivanda** (Croatia)
Science in small developing countries

17:00 *Walking tour: sightseeing of Ohrid*

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21 April 2018

Session 2
SCIENTIFIC CONTRIBUTIONS OF HUMBOLDTIANS AND THEIR COLLEAGUES

Chair: Prof. Dr. Marwan Moussa

9:00 **Prof. Dr. Pance Naumov** (Macedonia)
The Global Network University (GNU) model: Opportunities for internationalization of the science and education in the Balkan countries.

9:20 **Prof. Dr. Vladimir Ivanovski** (Macedonia)
Why would Alexander von Humboldt foundation support vibrational spectroscopy investigations?

9:40 **Prof. Dr. Rubin Galaboski** (Macedonia)
The power of volcanometry

10:00 **Prof. Dr. Zlatko Levkov** (Macedonia)
Why Lake Ohrid is unique and important to be protected? Case studies on diatoms

10:20 **Prof. Dr. Lora Taseva** (Bulgaria)
Transition as challenge: antique motifs and realia in the Slavonic Middle Ages

10:40 *Coffee break*
Chair: Prof. Dr. Giacomo de Angelis

11:00 **Prof. Dr. Al Soud Yaseen** (Jordan)
1,2,4-Triazole derivatives as 17beta-hydroxysteroid dehydrogenase type 2 (17beta-HSD2) inhibitors for the treatment of osteoporosis

11:20 **Prof. Dr. Gordana Jovanović** (Serbia)
Psychological challenges of tibetanism and communism
11:40 **Prof. Dr. Ildiko Tulbure** (Romania)
Methods for Shaping Sustainable Energy Strategies
12:00 **Prof. Dr. Jasminka Hasanbegovic** (Serbia)

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On some (un)changing images of judge's role (and especially on the antique origin of montesquieuian idea of judge as a mouth pronouncing the words of law)

12:20 **Prof. Dr. Silvana Simoska** (Macedonia)
The Humboldtian model of higher education and languages in the Balkan and EU context

12:40 **Ass. Prof. Svenir Gorin, Ass. Prof. Ivan Radevski** (Macedonia)
Alexander von Humboldt contribution to the development of geographical science

13:00 Lunch

Session 3 FROM THE PERSPECTIVE OF GERMAN HOSTS

Chair: **Prof. Dr. Rubin Gulaboski**

15:00 **Prof. Dr. Evamarie Hey-Hawkins** (Germany)
MatCatNet - A Catalyst for South Eastern Europe

15:20 **Prof. Dr. Fritz Scholz** (Germany)
The role of Wilhelm Ostwald in establishing physical chemistry worldwide as an own subject at universities

15:40 **Dr. Reinhard Kappi** (Germany)
On the redox reactions of biological substances: a voltammetric and ESR-spectroscopic approach

16:00 **Dr. Gudrun Scholz** (Germany)
Mechanochemistry – past, present and future

16:20 **Dr. Monika Bozen** (Germany)
Electrochemical measurements to elucidate ROS regulation of the immune response

20:30 **CONCERT: TRADITIONAL MUSIC OF MACEDONIA**
(Ohrid-Gardenia)
Art Band: **Chalgia Sound System**

22 April 2018

Chair: **Prof. Dr. Valentin Mirceski**

9-30 **Academician Prof. Dr. Gligor Jovanovski** (Macedonia)
Mineral wealth of Macedonia

Session 4 COOPERATION IN THE REGION AND FUNDING OPPORTUNITIES

Chair: **Prof. Dr. Vladimir Ivanovski**

10:00 **Prof. Dr. Zoran Hadzi-Velkov** (Macedonia)
Young scholars as a driving force of the society

10:20 **Prof. Dr. Marina Foschi** (Humboldt Foundation's Ambassador (Italy)
Scientist in Italy)

10:40 **Dr. Thomas Mayerhofer** (Germany)
The role of European technology platforms on the example of Photonics21 in shaping Horizon2020 and the upcoming 9th research framework programme

11:30 **Prof. Dr. Fetah Podvortica** (Kosovo)
The importance of international mobility for PhD students

11:50 Coffee break

Session 5 RESEARCH PROSPECTIVE AND YOUNG SCIENTISTS

Chair: **Prof. Dr. Zoran Hadzi-Velkov**

12:10 **Meike Graeser** (DAAD lecturer in Macedonia) (Germany)
The DAAD in Macedonia: Its aims and funding opportunities

12:30 **Dr. Kai Exner** (Germany)
Method Development in (Theoretical) Electrochemistry

12:50 **Prof. Dr. Avni Berisha** (Kosovo)
Shedding light on the mechanism leading to the spontaneous grafting of gold surfaces by diazonium salts. An experimental and "ab initio" study.

13:10 **Dr. Daniel Velinov** (Macedonia)
Generalized semigroups of operators and its applications

13:30

Lunch

Chair: Prof. Dr. Zlatko Levkov

14:30

Ass. Prof. Biljana Stojkoska (Macedonia)

14:50

Natasa Markovska (Macedonia)

Solar energy in the national low carbon development pathways - the case of Macedonia

15:10

Ass. Prof. Biserka Kostadinovska Stojchevska (Macedonia)

Cognitively-oriented curriculum with the purpose of overcoming the dyslexic issue in the teaching process in the R. of Macedonia

15:30 POSTER PRESENTATIONS

Oliver Tusevski

Genetic transformation of *Hypericum perforatum* L.: a biotechnological tool for production of phenolic compounds with promising biological activities

Aleksandra Ivanoska-Dacki, Gordana Bogoeva-Gaceva

Hybrid rubber composites with tailored energy dissipation suitable for base seismic isolation

Emilija Gjorgieva, Emil Popovski, Bozana Mikhova

Synthesis of novel phthalimide methyl derivative of piperidinic acid

Jihe Zhu, Blagica Arsovska, Kristina Kozovska

Acupuncture treatment for lumbar disc herniation

Jovica Todorov, Valentin Mirceski

Study of gold-prussian blue nanocomposite at the interface of two immiscible liquids

Saska Grunjska

Modal verbs as evidentiality markers in Macedonian and in German

Tatjana Ilievska, Ljupco Pejov

Anharmonic $OH(D)$ stretching vibrations of phenol in the ground and excited electronic states: a theoretical time-dependent DFT approach

Viktorija Blazheska

Consume the white noise: the supermarket as identity and religion in Andrej Blatnik's "Change me"

Kosta Najkov, Leon Stojanov, Valentin Mirceski

Square-wave voltammetric study of blood serum of laboratory mice fed with electrolyzed reduced water



Acupuncture treatment for lumbar disc herniation

Jihe Zhu¹, Blagica Arsovska^{1,2}, Kristina Kozovska¹

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Spinal disc herniation is an age-related degeneration of the annulus fibrosus, but it is slowly becoming one of the most common problems, regarding to the sedentary way of life and inactivity. According to the Traditional Chinese Medicine (TCM), the cause for disc herniation may be due to Kidney dysfunction, Qi or blood stagnation, invasion of the external pathogens or internal cause of weakness. Therefore the main purpose of the treatment is to improve the Kidney function, balance the Qi energy, improve the blood circulation, remove the external and internal pathogens and harmonize the whole well-being.

In this research are included 100 patients with lumbar disc herniation, treated in a clinic for TCM and acupuncture in Skopje, Macedonia. All patients were treated with

fire needle acupuncture on Ashi i.e. trigger points located in the area of the lower back and hips. Treatments were done indoor, on a room temperature, with duration of 5-10 minutes.

After finishing the individual number of treatments, all the symptoms that patients complained about before, including pain, tingling, burning sensation, loss of balance, muscle weakness, reduced mobility and other, were gone and the improvement in the patient's well-being was visible and possible for a minimum period.

Acupuncture as part of the 5000 years old Traditional Chinese Medicine as a treatment for lumbar disc herniation gives very satisfying and positive results and can significantly reduce the pain and other symptoms for a short period of time.

