

AvH Kolleg 2018

“Sustainable Development and Climate Change:
Connecting Research, Education, Policy and Practice”

Day 1, Wednesday, 19 th September		
TIME	ACTIVITY	HALL
14:00 – 19:00	Registration	Aula
15:00 – 16:00	<p>▪ SESSION: EDUCATION AND SCIENCE IN GERMANY AND SERBIA</p> <p>Chairpersons: Mirko Komatina, <i>president of Humboldt Club Serbia</i> Branimir Jovančičević, <i>vice president of Humboldt Club Serbia</i></p>	Solemn hall (2 nd floor)
	<p><i>Research opportunities in Germany - Alexander von Humboldt research fellowships</i></p> <p>Presenter: Thomas Hesse, <i>deputy secretary general of the Alexander von Humboldt Foundation</i></p>	
	<p><i>210th anniversary of higher education and research in Serbia</i></p> <p>Presenter: Ivanka Popović, <i>vice rector for international and inter-university cooperation of the University of Belgrade</i></p>	
16:00 – 17:30	<p>▪ PANEL DISCUSSION: SUSTAINABILITY IN HIGHER EDUCATION AND RESEARCH</p> <p>Moderator: Violeta Orlović Lovren, <i>University of Belgrade, Faculty of Philosophy, Belgrade</i></p> <p>Panellists:</p> <ul style="list-style-type: none"> - Ivanka Popović, <i>University of Belgrade, Serbia</i> - Walter Leal, <i>Hamburg University, Faculty of Life Sciences, Germany</i> - Pim Martens, <i>Maastricht University, International Centre for Integrated assessment and Sustainable development, The Netherlands</i> - Janez Krč, <i>University of Ljubljana, Biotechnical faculty, Slovenia</i> - Mersudin Avdibegović, <i>University of Sarajevo, Faculty of Forestry, Bosnia and Herzegovina</i> - Makedonka Stojanovska, „<i>Sts. Cyril and Methodius</i>“ <i>University, Faculty of Forestry, Macedonia</i> 	
17:30 – 17:45	Break	
17:45 – 19:15	<p>▪ ROUND TABLE: SUSTAINABILITY IN ACTION</p> <p>Moderator: Ivana Vasić, <i>Public enterprise for state forest management “Vojvodinašume”, Petrovaradin</i></p> <p>Presenters:</p> <ul style="list-style-type: none"> - Ana Seke, <i>CSUD Project Coordinator - United Nations Development Programme (UNDP)</i> - Duška Dimović, <i>WWF Adria country manager in Serbia - World Wildlife Fund (WWF)</i> - Boris Erg, <i>director of the IUCN Regional Office for Eastern Europe and Central Asia - International Union for Conservation of Nature (IUCN)</i> - Jovanka Ignjatović, <i>head of Water and Natural Resources Unit - Regional Environmental Center for Central and Eastern Europe (REC)</i> - Vojislav Milijić, <i>president of the Serbian National Biomass Association (SERBIO)</i> 	
19:15 – 21:00	Cocktail dinner	Garden (ground floor)

Day 2, Thursday, 20 th September		
TIME	ACTIVITY	HALL
08:30 – 18:00	Registration	Aula (ground floor)
09:00 – 10:00	<p>▪ OPENING CEREMONY Chairpersons: Mirko Komatina, <i>president of Humboldt Club Serbia</i> Branimir Jovančičević, <i>vice president of Humboldt Club Serbia</i> Đorđe Kostić, <i>vice president of Humboldt Club Serbia</i> Representative, <i>University of Belgrade</i></p> <p>Speakers – representatives of the following institutions and organizations: Thomas Schieb, <i>ambassador of the Federal Republic of Germany in Serbia</i> Thomas Hesse, <i>deputy secretary general of the Alexander von Humboldt Foundation</i> Representatives of Serbian state and academic institutions and organizations: - Serbian Academy of Sciences and Arts (tbc) - Ministry of Education, Science and Technological Development of the Republic of Serbia (tbc) - Ministry of Environmental Protection of the Republic of Serbia (tbc) - Ministry of Agriculture, Forestry and Water Management of the Republic of Serbia (tbc) - University of Belgrade Simone Heine, <i>director of the German Academic Exchange Service (DAAD) Info Center in Belgrade</i> Frank Baumann, <i>director of the Goethe Institute Serbia</i></p>	Solemn hall (2 nd floor)
10:00 – 10:30	Coffee break	Garden (ground floor)
10:30 – 12:30	<p>▪ PLENARY SESSION Chairpersons: Jose Pinto-Bazurco (USA), Vladimir Srđić (SRB) - Walter Leal: <i>The Sustainable Development Goals: an Opportunity to Foster a Better Understanding of Sustainability Challenges</i> - Pim Martens: <i>Our sustainability challenges: animal well-being, health and climate change</i> - Jose Pinto-Bazurco: <i>Legal challenges for implementing the Paris agreement in developing countries</i> - Martin Kaltschmitt: <i>Renewables within the Energy Supply System – Trends and Developments –</i></p>	Solemn hall (2 nd floor)
12:30 – 13:30	Group photo & Lunch	Garden (ground floor)
13:30 – 15:30	<p>▪ PARALLEL SESSIONS Session: Life and natural sciences perspective on sustainable development and climate change <u>Sub-session: <i>The Milanković theory and climate</i></u> Chairpersons: Luka Popović (SRB), Slobodan Marković (SRB) - Slobodan Marković: <i>Milanković's theory and future climate</i> - Luka Popović: <i>Milankovitch theory of climate changes: astronomical aspects</i> - Natalija Janc: <i>The correspondence between Milanković and Mišković on the topic of scientists and their work</i></p> <p><u>Sub-session: <i>Climate change modelling and natural disasters</i></u> Chairpersons: Tarmo Soomere (EST), Aleksandar Lipkovski (SRB)</p>	Solemn hall (2 nd floor)

	<ul style="list-style-type: none"> - Aleksandar Lipkovski: <i>Mathematical modelling in sustainable development and climate change</i> - Ana Vuković: <i>Climate change modelling as a support tool for sustainable development planning</i> - Tarmo Soomere: <i>Concealed changes in waves and winds that may lead to an ecological dead-zone of shelf seas</i> - Piero Bellanova: <i>Tracing toxic flood events in sedimentary archives - the potential of organic indicators</i> 	
	<p>Session: Smart cities, infrastructure and energy: technical sciences outlook on sustainability issues <u>Sub-session: Advanced materials</u> Chairpersons: Srećko Stopić (DEU), Snežana Bošković (SRB)</p> <ul style="list-style-type: none"> - Goran Vladisavljević: <i>Carbon capture by solid adsorbents</i> - Svetlana Dmitrović: <i>Spider silk as a sustainable material for development novel functional biocomposites</i> - Srećko Stopić: <i>Carbonisation of olivine under high pressure in an autoclave</i> - Dejan Zagorac: <i>Energy Landscapes and Structure Prediction of Green Materials: Influence on Sustainable Development and Climate Change</i> - Vladimir Srdić: <i>Advanced materials in reduction of climate change</i> - Branko Matović: <i>Sustainable Development and Climate Change: Synthesis nanometric materials using the Ouzo effect for immobilization radionuclides</i> 	Hall 16 (1 st floor)
	<p>Session: The role of forests and agriculture in sustainable development and climate change mitigation and adaptation <u>Sub-session: Effect of climate change on forest ecosystems</u> Chairpersons: Axel Albrecht (DEU), Ratko Ristić (SRB)</p> <ul style="list-style-type: none"> - Axel Albrecht: <i>Tree species suitability under climate change – an example from Southwest Germany</i> - Dominik Sperlich: <i>Ecological and Economic Implications of Admixing Silver fir in Beech stands – a case study from the Black Forest</i> - Marko Smiljanić: <i>Comparison of the intra-annual growth in the beech mixed stands from North East of Germany: implication for climate change adaptability</i> - Vojislav Janković: <i>Impact of Climate Change on Forests: A case study of ice-breaks in Eastern Serbia</i> - Ratko Ristić: <i>The role of forest ecosystems in the process of disaster risk reduction, mitigation and adaptation to effects of climate changes</i> - Nada Dragović: <i>The role of education in soil erosion and torrent control in Serbia: Current state and requirements due to climate changes</i> - Mirjana Todosijević: <i>The economic assessment of the impact of climate change on crops in Serbia</i> 	Hall 8 (1 st floor)
15:30 – 16:00	Coffee break	Garden (ground floor)
	<p>▪ PARALLEL SESSIONS</p> <p>Session: Sustainable development and climate change: global issues (Social sciences, Humanities, Law and Economy) <u>Sub-session: Sustainable Development and Global Citizenship</u> Chairpersons: Gordana Jovanović (SRB)</p> <ul style="list-style-type: none"> - Endre Kiss: <i>The actual dialogue between nature and society or on the mutual protection of nature and society</i> - Michael Böcher: <i>Scientific knowledge transfer for sustainability in a new age of politics</i> - Gordana Jovanović: <i>Conditions of socio-cultural sustainability</i> - Radmilo Pešić: <i>Climate Change Adaptation -Missing Links with the Finance</i> - Anđelka Mihajlov: <i>Sustainable Development Goals implementation- EU accession interface in the context of the Western Balkan more efficient and coherent sustainable development pathways</i> - Dragoljub Todić: <i>Regional aspects of climate change law</i> - Miloš Došen: <i>Entrepreneurship in the age of climate change</i> 	
16:00 – 18:00		Solemn hall (2 nd floor)
	<p>Session: Smart cities, infrastructure and energy: technical sciences outlook on sustainability issues <u>Sub-session: Energy efficiency and sustainability</u> Chairpersons: Attila Imre (HUN), Dragi Antonijević (SRB)</p>	Hall 8 (1 st floor)

	<ul style="list-style-type: none"> - Jean-Pierre Djukic: <i>The Chemical Network Approach of Multistep Synthesis, an „Holly Grail“ of Sustainable Development: Challenges and Examples</i> - Branimir Jovančićević: <i>Oil - useful fossil fuel, but also the cause of climate change</i> - Franz Winter: <i>New simulation tool for the optimization and projection of a city's waste incineration</i> - Attila Imre: <i>Improving the efficiency for low-temperature thermodynamic cycles used for the utilization of geothermal and waste-heat</i> - Ivana Ivančev Tumbas: <i>Fate of pharmaceuticals and personal care products in water treatment – case study on caffeine and benzophenones</i> - Silviya Boycheva: <i>Adaptation of fossil-fuel Thermal Power Plants to meet the challenges of the climate change: A review of the technological platforms for low-carbon emission</i> - Dragi Antonijević: <i>Energy efficiency and sustainability of biofibres-based thermal insulation</i> - Milica Perić: <i>Implementation of the life cycle assessment (LCA) methodology for the promotion of renewable energy sources, climate change mitigation and pollution prevention</i> 	
	<p>Session: The role of forests and agriculture in sustainable development and climate change mitigation and adaptation</p> <p><u>Sub-session: Sustainable management of protected areas</u></p> <p>Chairpersons: Zuzana Sarvašová (SVK), Slobodan Puzović (SRB)</p> <ul style="list-style-type: none"> - Zuzana Sarvašová: <i>Limitations for forestry in protected areas in Slovakia</i> - Liviu Nichiforel: <i>The harmonization of Natura 2000 plans with forest management planning in Romania: what impacts, what solutions?</i> - Vukan Lavadinović: <i>Human Dimensions in wildlife management - a tool to ensure sustainability</i> - Slobodan Puzović: <i>Protection of nature as a potential of sustainable development of local communities in Serbia and tool for the reduction of negative impacts of climate changes</i> - Ilija Đorđević: <i>Organization of protected area management in Serbia: diversification from public to private managers</i> - Predrag Šumarac: <i>Sustainable management in national park Kopaonik- case study of division and relevance of tourists charges</i> - Ivana Vasić: <i>Implementation of European Charter on Sustainable Tourism in Special Nature Reserve Gornje Podunavlje</i> 	<p>Hall 16 (1st floor)</p>
20:00 –	Conference dinner	<p>Restaurant <i>AeroKlub</i></p>

Day 3, Friday, 21 st September		
TIME	ACTIVITY	HALL
08:30 – 15:30	Registration	Aula (ground floor)
09:00 – 10:00	<p>▪ PLENARY SESSION Chairperson: Davide Pettenella (ITA)</p> <ul style="list-style-type: none"> - Michael Pregernig: <i>Sustainability, science and society: the need for a multi-perspectivist research approach</i> - Daniela Kleinschmit: <i>Achieving Sustainable Development: Bioeconomy as the way forward</i> 	Solemn hall (2 nd floor)
10:00 – 10:30	Coffee break	Garden (ground floor)
10:30 – 12:30	<p>▪ PARALLEL SESSIONS</p> <p>Session: The role of forests and agriculture in sustainable development and climate change mitigation and adaptation <u>Sub-session: <i>Toward environmental sustainability - bioeconomy and ecosystem services</i></u> Chairpersons: Helga Pülzl (AUT), Dijana Vuletić (HRV)</p> <ul style="list-style-type: none"> - Helga Pülzl: <i>Ready to govern? Ideas, interests and institutions - the bioeconomy frontier</i> - Marko Lovrić: <i>Mapping European research capacities and activity in the field of forest bioeconomy</i> - Nataša Lovrić: <i>South-East European forest based sector bioeconomy outlook</i> - Dijana Vuletić: <i>Sustainability under the question – climate change effects on evaluation and provisioning of ecosystem forest services</i> - Davide Pettenella: <i>Marketing ecosystem services: from business ideas to the real market</i> - Aleksandar Vasiljević: <i>Renewable energy sources in forestry</i> 	Solemn hall (2 nd floor)
	<p>Session: The role of forests and agriculture in sustainable development and climate change mitigation and adaptation <u>Sub-session: <i>Climate change and biotechnology in agriculture and forestry</i></u> Chairpersons: Aleksa Obradović (SRB), Milan Mataruga (BIH)</p> <ul style="list-style-type: none"> - Aleksa Obradović: <i>Biological control of plant pathogenic bacteria – a way toward sustainability and safer food</i> - Ágnes Cséplő: <i>Functional characterization of CDPK Related Kinase (CRK) family in Arabidopsis thaliana</i> - Jelena Milovanović: <i>Meeting the SDGs with Climate Smart Agriculture: the Adaptation and Mitigation Potentials in a Changing Climate</i> - Milan Mataruga: <i>The impact of climate change on transfer of forest genetic resources in Bosnia and Herzegovina</i> - Marina Nonić: <i>Climate change and conservation of forest genetic resources</i> - Vladan Ivetić: <i>Maintaining the environmental sustainability in changing climate by functional forest restoration</i> 	Hall 16 (1 st floor)
	<p>Session: Smart cities, infrastructure and energy: technical sciences outlook on sustainability issues <u>Sub-session: <i>Robotics and electric vehicles and sustainability issues</i></u> Chairperson: Aleksandar Rodić (SRB), Gojko Joksimović (MNE)</p> <ul style="list-style-type: none"> - Paul Nicolae Borza: <i>Hybrid Electric energy storage systems and their application toward energetic global optimized solutions</i> - Aleksandar Rodić: <i>Advanced robotic technologies in risk prevention and environmental protection for the sustainable regional development of the region</i> - Atanas Kočov: <i>MCDM for defining indicators for implementing electric vehicles in Western Balkan countries (WBC's) for environmental sustainability</i> - Mileta Žarković: <i>Sustainable development of the power system - the Impact of Artificial Intelligence</i> - Tünde Varga: <i>Use of Digitally Designed Books in the Training of Automotive Specialists</i> 	Hall 8 (1 st floor)
12:30 – 13:30	Lunch	Garden (ground floor)

	<p>▪ PARALLEL SESSIONS</p> <p>Session: The role of forests and agriculture in sustainable development and climate change mitigation and adaptation <u>Sub-session: Forests and climate change policy and governance</u> Chairpersons: Bernhard Wolfslehner (AUT), Mersudin Avdibegović (BIH)</p> <ul style="list-style-type: none"> - Bernhard Wolfslehner: <i>Forests and climate change: the challenges for science-policy transfer</i> - Roderich von Detten: <i>Climate Change as the Normal Case of Emergency - Forestry or the Management of the Unknown</i> - Bogdan Popa: <i>A comparative analysis of climate change adaptation and mitigation initiatives for forest sectors in Romania and Moldova</i> - Franc Ferlin: <i>Experiences in promotion sustainable development in the forestry sectors of Slovenia and the West Balkans</i> - Mersudin Avdibegović: <i>Forestry and climate change in Bosnia and Herzegovina: challenges for environmental, socio-cultural and economic sustainability</i> - Jelena Nedeljković: <i>Climate change governance in selected European countries: forestry and nature conservation perspective</i> - Mirjana Stanišić-Quaedvlieg: <i>Policy measures in forestry and nature protection for climate change mitigation in selected EU and the Western Balkan countries</i> - Zoran Poduška: <i>"Waldsterben" phenomena in forest research and policy in Serbia</i> 	Solemn hall (2 nd floor)
13:30 – 15:30	<p>Session: Smart cities, infrastructure and energy: technical sciences outlook on sustainability issues <u>Sub-session: Challenges of sustainable energy and climate change</u> Chairpersons: Neven Duić (HRV), Ana Kostov (SRB)</p> <ul style="list-style-type: none"> - Neven Duić: <i>Sustainable development and energy transition</i> - Uroš Tomić: <i>Lifestyle-specific differences in energy consumption behaviour of private households</i> - Sohail Ahmad: <i>Spatially contextualized analysis of energy use for commuting in India</i> - Nebojša Manić: <i>The multi-component kinetic modelling of biomass thermochemical conversion process</i> - Dragana Đorđević: <i>Energy production in Serbia: environmental problems and challenges for the future</i> - Ilija Batas Bjelić: <i>The mitigation of the economic impacts from the fuel price shocks: Serbian case</i> - Dóra Szalay: <i>Influence of Climate Change on Lignocellulose Biofuel Production Depending on Legislation</i> 	Hall 8 (1 st floor)
	<p>▪ DISCUSSION WITH POSTER SESSION PARTICIPANTS</p>	Aula (ground floor)
15:30	Belgrade city tour	

Day 4, Saturday, 22 nd September		
TIME	ACTIVITY	HALL
08:30 – 15:00	Registration	Aula (ground floor)
09:00 – 10:00	<ul style="list-style-type: none"> ▪ PLENARY SESSION Chairperson: Slobodan Savić (SRB) - Mile Ivanda: <i>Sustainable economical advancing in developing countries by science development</i> - Mihai Dima: <i>The climate challenge: lessons from the past and implications for the future</i> 	Solemn hall (2 nd floor)
10:00 – 12:00	<ul style="list-style-type: none"> ▪ PARALLEL SESSIONS Session: Sustainable development and climate change: global issues (Social sciences, Humanities, Law and Economy) <u>Sub-session: Role of Higher Education in Sustainable Development</u> Chairperson: Violeta Orlović Lovren (SRB) - Zoran Hadzi-Velkov: <i>Role of University for the Western Balkans Smart Growth</i> - Marian Jaskula: <i>Science and education in the face of challenges of sustainable development</i> - Violeta Orlović Lovren: <i>Assessing sustainability in higher education: one methodological approach and many challenges</i> - Marija Maruna: <i>The role of the academy in strengthening local institutional capacities to address the SDGs</i> - Nataša Petrović: <i>Higher education responses to climate change and climate change risk assessment</i> 	Solemn hall (2 nd floor)
	<ul style="list-style-type: none"> Session: The role of forests and agriculture in sustainable development and climate change mitigation and adaptation <u>Sub-session: Private and urban forests in changing climate</u> Chairpersons: Laura Bouriaud (ROU), Špela Pezdevšek-Malovrh (SVN) - Laura Bouriaud: <i>Governance-related indicators and the regulation of private forestry: a comparative analysis across Europe</i> - Špela Pezdevšek-Malovrh: <i>Adaptation of private forest owners management to climate changes – Is there an opportunity for new forms of cooperation?</i> - Anže Japelj: <i>Expectations of forest owners and the general public towards provision of forest ecosystem services within sustainable forest management: a case study of Slovenia</i> - Todora Rogelja: <i>Policy framework conditions forestry based social innovations: the case of Slovenia</i> - Ivana Živojinović: <i>Using Q method to reveal urban forestry perspectives toward climate change adaptation</i> - Vladimir Stojanovski: <i>Can the urban greenery be an instrument for combating climate changes in municipality Centar - Skopje</i> 	Hall 8 (1 st floor)
12:00 – 12:30	Coffee break	Garden (ground floor)
12:30 – 14:30	<ul style="list-style-type: none"> ▪ PARALLEL SESSIONS Session: Smart cities, infrastructure and energy: technical sciences outlook on sustainability issues <u>Sub-session: Sustainable and climate smart urban planning</u> Chairpersons: Christoph Schneider (DEU), Nataša Tomić Petrović (SRB) - Christoph Schneider: <i>Urban climate under change: challenges for public health, infrastructure and eco-system services in the city</i> - Jörg Musiolik: <i>Speeding up the sustainable transition of cities? Exploring systemic changes in the smart cities of Vienna, Amsterdam and Santander</i> - Nataša Tomić Petrović: <i>Sustainable transport and the right to healthy environment as the challenge in the time of climate changes</i> - Nevena Vasiljević: <i>From the landscape point of view: policy, planning research and education about urban landscape sustainability and resilience</i> - Tijana Crnčević: <i>Sustainable planning in the context of climate change: examples in Serbia</i> 	Solemn hall (2 nd floor)

	- Ioannis Katsoyiannis: <i>Water reuse as a secure pathway to tackle water scarcity</i>	
	Session: Climate change and health Chairpersons: Ljiljana Gojković-Bukarica (SRB), Jasmina Marković-Lipkovski (SRB) - Ljiljana Gojković Bukarica, <i>The influence of Climate Change on human cardiovascular function</i> - Martina Bosić, <i>Influence of climate factors change on the incidence of skin tumours</i> - Radmila Novaković, <i>Mediterranean climate, Mediterranean diet, health</i> - Natalia Kulikova, <i>Climate- and season-dependent therapy in the a.c. celsus's treatise "de medicina"</i>	Hall 8 (1 st floor)
14:30 – 15:00	▪ CLOSING CEREMONY	Solemn hall (2 nd floor)

POSTER SESSION

Poster session will take place in the Aula and will be open during entire conference

Aleksandar Petrović	▪ <i>Global warming - challenge to the modern enology</i>
Aleksandra Lekić	▪ <i>Optimal control for DC-DC converters</i>
Ana Kostov	▪ <i>Lead-free alloys for ecological solder manufacturing</i>
Boris Radić	▪ <i>Predicting the unpredictable: contemporary methods for mountain landscapes assessment under the ski resort impacts</i>
Boško Milovanović	▪ <i>Spatial and temporal variability of air temperatures and precipitation in Serbia for the period 1961-2010</i>
Denitza Zgureva	▪ <i>Computational modelling of static and dynamic adsorption of Co2 onto fly ash zeolites</i>
Dragan Gačić	▪ <i>The impact of climate change on red deer (Cervus elaphus l.) management in Serbia and Slovenia</i>
Dragica Stanković	▪ <i>Ecoremediation in the function of sustainable development</i>
Dušan Todorović	▪ <i>Modelling of selected waste biomass downdraft gasification</i>
Jasmina Gačić	▪ <i>Climate changes and natural disasters</i>
Marija Lalošević	▪ <i>Implementation of green roofs in Belgrade as a part of sustainable development and climate change mitigation</i>
Miloš Radojević	▪ <i>Comparison of experimental methods for characterization of raw biomass as a key factor for sustainable biomass utilization</i>
Nenad Radaković	▪ <i>Sustainable development and climate change in the forests of national park Djerdap</i>
Nevena Marković	▪ <i>'Emotional cartography' – a critical perspective on mapping spatial narratives</i>
Vesela Radović	▪ <i>How to avoid the tyranny of the multiple environmental risk caused by climate change in the Republic of Serbia</i>
Slavica Petrović	▪ <i>European ecolabels for wood furniture</i>
Snežana Zarić	▪ <i>Water oxidation pathways modelled on a cobalt oxide phosphine dimer catalyst</i>
Stefana Babović	▪ <i>Socio-cultural Sustainability of Villages in South-eastern Serbia</i>
Violeta Babić	▪ <i>Forestry under climate change: vulnerability overview on regional and national level</i>