

ASPA SEMINAR 2021

BIOECONOMY FOR A LIVING AND BIODIVERSE COLOMBIA: TOWARDS A KNOWLEDGE DRIVEN SOCIETY

For the industry
and the academia

Virtual event
November 24, 25 and 26, 2021



Registration is required
prior to the seminar.

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ORGANIZED BY:



Asociación Antioqueña de Profesionales
con Estudios en Alemania



Deutscher Akademischer Austauschdienst
German Academic Exchange Service

ACADEMIC PROGRAM

(Language of the lectures is Spanish)

Day 1 – Wednesday, November 24, 2021

Timetable	Program
09:00 – 09:30	Introduction to the seminar
09:30 – 10:00	"Green chemistry and technological convergence." María del Pilar Noriega E., PhD. - Member of the Wise Mission in Colombia, 2019
10:00 – 10:30	"Eco-friendly processing of Colombian Coffee." Juan Rodrigo Sanz U., PhD. - CENICAFE
10:30 – 11:00	"Water resources and convergence analysis." Chem. -Eng. Diego Jaramillo Upegui – Grupo Ondina
11:00 – 11:30	"Bioeconomy, the option for sustainability." Elizabeth Hodson Ph. D. - Member of the Wise Mission in Colombia, 2019
11:30 – 12:00	Panel of experts, day 1

Day 2 – Thursday, November 25, 2021

Timetable	Program
09:00 – 09:30	Summary of first day
09:30 – 10:00	"BancO2 as an encouragement and promotion of conservation, beekeeping and meliponiculture." M.Sc Albeiro Lopera Henao - CORNARE
10:00 – 10:30	"Promote sustainable, certified organic farming with examples of species use." Sr. Diego Cárdenas - ECOCERT Colombia Ltda. / Mag. Diana M. Santana M. – PNN Sierra La Macarena
10:30 – 11:00	"Applied genomics studies on the generation of coffee varieties based on their genetic diversity." M.Sc. Carlos Maldonado - CENICAFE
11:00 – 11:30	"Bioinputs: Plant extracts or entomopathogens derived from the use of Colombian biodiversity." Dr. Dagoberto Castro – Universidad Católica de Oriente, UCO
11:30 – 12:00	Panel of experts, day 2

Day 3 – Friday, November 26, 2021

Timetable	Program
09:00 – 09:30	Summary of second day
09:30 – 10:00	"From seedling to final product: vicissitudes of the journey." Elena E. Stashenko, Química, PhD. – Universidad Industrial de Santander UIS
10:00 – 10:30	"Biological control of dengue and its contribution to achieving the millennium goals." Dr. Iván Darío Vélez – Director PECET (Programa de Estudio y Control de Enfermedades Tropicales- de la Universidad de Antioquia)
10:30 – 11:00	"Biomass and coal: Opportunity for new products and guarantee a reliable, diversified and sustainable energy system." Dr. Farid Chejne Janna. - Universidad Nacional de Colombia, Medellín
11:00 – 11:30	Panel of experts, day 3
11:30 – 12:00	"Wrap up and conclusions of the seminar"

SPEAKERS

María del Pilar Noriega E., Ph.D.: Chemical Engineer from the Universidad Pontificia Bolivariana, Medellín, Colombia. She has two postgraduate studies in Chemist from the Technical University of Dresden (Germany) and in Thermoplastic Extrusion from the University of Stuttgart (IKT - Germany). She has a doctorate (Ph.D.) in Mechanical Engineering with emphasis on polymers at the University of Wisconsin, Madison, USA, 2001. She was Head of the Extrusion department of ICIPC since 1991 and since 1997, she served as Technical Director of the same Institute until June 2012, when she was appointed as its General Director until 2019. Member of the board of extrusion division and Fellow of the Society of Plastics Engineers (SPE) of the United States since January 2019, and she is member of the Wise Mission in Colombia, 2019 and Scientific Ambassador of the German Academic Exchange Service (DAAD) since 2017. Author of five books and numerous technical papers in international journals, and she is co-inventor on patents granted and applied in Colombia and in the U.S. She is currently Director of Research, Development, and Innovation for an international consortium with a focus on green chemistry and biorefineries.

Dr. Farid Chejne Janna: Mechanical Engineer, Universidad Pontificia Bolivariana - UPB; Physicist, Universidad de Antioquia; Doctor in Energy Systems of the Polytechnic Universidad de Madrid, Spain, and Post Doctorate, Ilya Prigogine, Solvay Institute, Belgium. With experience in modeling and simulation of thermochemical processes, analysis of advanced thermodynamic and energy systems, optimization, and rational use of energy, he has developed scientific publications, prototypes, software and two patents. He has been Director of the Institute of Energy and Thermodynamics of the UPB, Director of the Energy and Thermodynamics Group, and Master and Ph.D. Director at the same university. He has served as Dean of the Faculty of Mines of the Universidad Nacional de Colombia, director of the undergraduate and postgraduate programs in chemistry and petroleum within the department of processes and energy of the same Faculty. Currently, Associate Professor at the Universidad Nacional de Colombia and the Director of the Applied Thermodynamics and Alternative Energies Research Group -TAYEA, Corresponding Member of the Colombian Academy of Exact, Physical and Natural Sciences and Member of the American Chemical Society.

Dr. Iván Darío Vélez Bernal: He is a medical surgeon graduated from the Universidad de Antioquia. He has postgraduate studies in parasitology and in Tropical Medicine and Leprology. Master in Parasitology from the University of Montpellier, France, and Ph.D. in infectious diseases from the University of Granada, Spain. He is the current director of the PECET, Program for the Study and Control of Tropical Diseases at Universidad de Antioquia. He works in medical entomology, immunology, and biological tests, has held various positions in the World Health Organization and in other entities nationally and internationally. He has been the recipient of multiple awards and honors both in Colombia and abroad, co-inventor in seven granted patents, author of numerous publications in recognized media and researcher in more than a hundred investigations. He has participated in the organization of dozens of academic and scientific events.

Elena Stashenko, Ph.D.: She is Chemist graduated from Druzhbi Narodov University in Moscow (Russia), with a doctorate from the same university in instrumental analysis. She has done post-doctoral stays at Universities in the United States, Germany, Canada, and Australia. She is a member of the Editorial Committee of several international magazines and a member of several Colombian entities. For more than 30 years, she is a teacher at the School of Chemistry, Faculty of Sciences, of the Universidad Industrial de Santander (UIS, Bucaramanga). Currently, she works as General Director of the National Center of Research Excellence for the Agroindustrialization of Tropical Aromatic and Medicinal Plant Species (CENIVAM); Director of the Laboratory of Chromatography and Mass Spectrometry (CROM-MASS) of the UIS; Scientific Director of the Program "Bio-Challenge XXI 15:50 - Development of bioproducts for the health, agricultural and cosmetic sectors, as a result of the study of Colombian biodiversity", approved by COLCIENCIAS within the framework of Call 778 COLOMBIA CIENTÍFICA; and Scientific Director of the Project "Development of the agroindustry in aromatic plants and their derivatives as an agent of technological, economic and social progress in the Santander-Santander countryside", of the Science, Technology and Innovation Fund (FCTel) of the General Royalties System, SGR . She has directed more than 300 undergraduate, Master and Ph.D. theses in Chemistry, and published more than 250 scientific articles in international and national indexed journals and in proceedings of international scientific conferences and symposia. She has been awarded several National Awards for scientific and academic merit.

Dr. Dagoberto Castro Restrepo: He is an Agricultural Engineer from the Universidad Nacional de Colombia, Bogotá and Doctor in Agricultural Sciences with an emphasis on Biotechnology and Plant Physiology from the Ciego de Avila University, Cuba. He is the current Director of research and development at the Universidad Católica de Oriente, Rionegro (Ant.), Colombia, and Head of the Biotechnology Unit of the same university. He is also a Partner and legal representative of the company that produces and markets bio-inputs for agricultural use, BIOQUIRAMA S.A.S. He was an international consultant for "The international network for the improvement of banana and plantain" (INIBAP) and other national entities and in the last 5 years he has participated in 17 research projects in his area. He has been the co-author of 5 books and has made multiple publications and presentations in national and international magazines and events.

Elizabeth Hodson, Ph.D.: Bacteriology from the Pontificia Universidad Javeriana, Colombia with postgraduate studies in Universitology from ICFES, M.Sc. in Plant Physiology and Ph.D. in Botany and Genetic Manipulation of Plants from the University of Nottingham, England. Emeritus Professor of the Faculty of Sciences, Pontificia Universidad Javeriana, Full Member of the Colombian Academy of Exact, Physical and Natural Sciences ACCEFYN, Honorary Member of the Scientific Committee of the Fondazione Scuola Medica Salernitana (Italy), member of the Ad Hoc Technical Expert Group (AHTEG) in Risk Assessment and Management of the Cartagena Protocol on Biosafety (Convention on Biological Diversity), member of the Commission on Ethics of Scientific Knowledge and Technology of UNESCO (COMEST), Member of the International Wise Mission, Colombia 2019, recently received the IICA Chair in Bioeconomy and Sustainable Development. Coordinator of the UNESCO Chair in Biotechnology and Sustainable Development Goals (UTP - U del Quindío - U de Caldas - U Nacional de Colombia, Manizales - CIRAD). She has edited 22 books, has published 31 scientific chapters in books and more than 50 scientific articles.

Juan Rodrigo Sanz Uribe, M.Sc., Ph.D.: Mechanical Engineer from the Technological University of Pereira, with M.Sc. degree in automatic systems from the same university, and with a Ph.D. degree in Mechanical Engineering from the University of Wisconsin - Madison. He has been a researcher at the National Research Center of Coffee (Cenicafé) for more than 33 years, where he is currently the Head of the Postharvest Department. He is the author of one book and the co-author of other five books, ten book chapters and more than 100 scientific publications on topics related to environmentally friendly coffee processing, coffee harvesting, mechanical design, advanced automation, as well as in polymer processing. He has been granted with more than five international patents related to machines and processes to handle coffee.

M.Sc. Albeiro Lopera Henao: Agroforestry Engineer, Postgraduate studies in Environmental Management and Development Management, Master in Design, Management and Direction of International Cooperation Projects. Professional specialized in the Regional Autonomous Corporation of the Negro and Nare Rivers - CORNARE- for 28 years, leading the management and development of programs and projects aimed at the conservation of natural resources, the mitigation of climate change and the development of the communities settled in these territories. Currently is Coordinator of the Payment Scheme for Community Environmental Services -BanCO2- in the jurisdiction of CORNARE, and co-manager of this initiative in the rest of the country, hand in hand with the Masbosques Corporation as operator.

Eng. Diego Jaramillo Upegüi: Chemical Engineer Univ. Pontificia Bolivariana 1977. Full-time professor in Mathematics, Balances, Thermodynamics, Industrial Design and Chemical Physics until 1986. Founding director of the CIDI UPB Energy Conservation in Industry project. Director of 15 Macro theses in engineering projects, for example: Chemical Plants of Chlorine / soda, Nitric Acid, Formol, PVA, PVC, Hydrogen, and others. Hydrogen Peroxide Plant Engineer, Researcher and Engineer for the 1990 Organic Peroxide Plant Project. Founder, Partner and Manager of the company Tepsa: Plastics / Engineering and Environmental Projects. Expert Advisor at ONDINA ATICA from 2014 to date, in Projects and Waters. Technology Exchange, training and Projects with World Companies in Germany, England, France, Belgium, Holland, USA, Japan, Mexico, Brazil, and Eka Nobel Latin America: CNPM Limpia de Bolivia, Colombia, Chile, and Peru.

Mr. Diego Cárdenas: Professional in Political Science from the Universidad Nacional de Colombia, Bogotá, with aptitudes for the understanding and transformation of conflicts from research, social participation and education; he has 10 years of experience working in multicultural and interdisciplinary teams for the design and execution of projects. Among others, he has been Director, Advisor and Project Coordinator at the Project “Fundación Proyectar Sin Fronteras” and currently he is Country Manager of Ecocert Colombia LTDA.

M.Sc. Diana M. Santana M.: Degree in Biology from the Universidad Distrital Francisco José de Caldas, Postgraduate in environmental management and education, with studies in bioanthropology from the same university and Master's degree in Sustainable development project management from EAN University. She has 7 years of experience working in protected areas, developing management plans, working with communities to generate conservation agreements, payment for environmental services and green enterprises. She has experience in generating ecotourism projects with natives, demobilized and displaced communities. She has been a Project Manager for the “Fundación Proyectar Sin Fronteras”, a Community Tourism Professional for the Conserva Group, a Management Plan Professional for the El Cocuy PNN (National Natural Park.) and currently she is a Professional for use, occupation and tenure of the Sierra La Macarena PNN.

M.Sc. Carlos Ernesto Maldonado Londoño: Agricultural Engineer from the Universidad de Caldas with a Master's Degree in Molecular Biology and Biotechnology from the Universidad de Pamplona, Norte de Santander. He is the author of numerous articles published in specialized magazines and has participated as a speaker at several national and international events. He also has intellectual property records on plant varieties and new genetic sequences. Since 2001 he has worked as a scientific researcher at the Colombian Coffee Growers Federation (FNC)-National Center for Coffee Research (CENICAFÉ).