

Multidisciplinary Workshop

# Green Transition & Biodiversity



**8** DECENT WORK AND  
ECONOMIC GROWTH



**15** LIFE  
ON LAND



## PROGRAMME

Brussels, Monday 4 December 2023

### Venue

Palais des Académies — Paleis der Academiën  
Rue Ducale 1 — Hertogsstraat 1  
1000 Brussels

In collaboration with



# PROGRAMME

08.30 - 09.00 Registration & Poster installation

09.00 - 09.10 Welcome Address

09.10 - 09.35 **KEYNOTE LECTURE**

Benoît LEGRAND, Enabel Belgian development agency

09.35 - 09.45 Questions & Answers

09.45 - 10.45 **COMMUNICATIONS BY YOUNG RESEARCHERS – SESSION I**

Chair: Pierre MEERTS, Université Libre de Bruxelles & RAOS Member, Belgium

**Do large dams contribute to the green transition? A systematic review of their hydrogeomorphological impact in Africa**

Sofie ANNYS, Department of Geography, Ghent University (Belgium)

**High phenotypic plasticity and growth performance in outcrossed seedlings of *Pericopsis elata* (Fabaceae)**

Jean Pierre NGONGO, Faculty of Sciences. Evolutionary Biology and Ecology, Université Libre de Bruxelles (Belgium) & Faculty of Agronomic Sciences, Department of Natural and Renewable Resources Management. University of Kindu (Democratic Republic of Congo)

**Empowering women to achieve sustainable development goals: Bangladesh's "whole of society" approach and CARE's role**

Krishna Kumar SAHA, Department of Conflict and Development Studies, Ghent University (Belgium) & Assistant Professor, Department of Public Administration, Comilla University (Bangladesh)

**Water scarcity as a crisis of reproduction: A case study of climate change adaptation to water scarcity and droughts in eastern India**

Nairita ROY CHAUDHURI, Tilburg Law School, Tilburg University (Netherlands)

10.45 - 11.15 Coffee break & Poster session

## **POSTERS**

**Habitat fragmentation and alien species impacts on biodiversity condition of Ikogosi Ekiti, Southwestern, Nigeria**

SAMUEL ANIRAMU, Space Application and Environmental Science Laboratory, Obafemi Awolowo University, Ile-Ife (Nigeria)

**Pratiques et rendements de carbonisation dans la zone rurale de Lubumbashi en RDC**

Nathan KASANDA MUKENDI, Faculté des Sciences Agronomiques, Unité de Recherche en Economie et Développement Agricole, Université de Lubumbashi (République Démocratique du Congo) & Gembloux-Agro Biotech, Unité Biodiversité et Paysage, Université de Liège (Belgium)

**Quantification de la déforestation et de la dégradation du miombo dans le bassin de production du charbon de bois (BPCB) à Lubumbashi (RD Congo): ampleur et changement spatiaux entre 1990 et 2022**

Héritier KHOJI MUTEYA, Unité Ecologie, Restauration Ecologique et Paysage, Faculté des Sciences Agronomiques, Université de Lubumbashi (Democratic Republic of the Congo) & Unité Biodiversité et Paysage, Université de Liège—Gembloux Agro-BioTech (Belgium)

**“Mother Nature, where have I hurt you and why do I feel your anger in my being?”**

**Ecofeminist issues**

Christelle BALEGAMIRE KARUTA, Center of Expertise in Environmental and Mining Management, Catholic University of Bukavu (CEGEMI-UCB) (Democratic Republic of the Congo) & Kalehe Higher Institute of Development Techniques (ISTD-Kalehe) (Democratic Republic of the Congo)

**Aquifer structure and hydraulic parameters assessment of Jimma area, Ethiopia**

Wagari Mosisa KITESSA, Laboratory for Applied Geology and Hydrogeology, Department of Geology, Ghent University (Belgium) & Faculty of Civil and Environmental Engineering, Jimma Institute of Technology, Jimma University (Ethiopia)

11.45 - 12.45

**COMMUNICATIONS BY YOUNG RESEARCHERS – SESSION II**

Chair: Christine COCQUYT, Meise Botanic Garden & RAOS Member, Belgium

**Traditional health practices and biodiversity in Africa: A systematic review**

Léa FOURCHAULT, Royal Belgian Institute of Natural Sciences (Belgium)

**Hydro-geophysical study of the Bou Omrane-Sabkhet Naouel region (Tunisian Southern Atlas)**

Marwa GHAIB, Faculty of Sciences of Tunis & Sedimentary Basins and Petroleum Geology Research Laboratory (BS&GP), University of Tunis El Manar (Tunisia), Laboratory for Applied Geology and Hydrogeology, Department of Geology, Ghent University (Belgium)

**Assessing catchment connectivity dynamics in the Gumara and Rib catchments of the Ethiopian Highland**

Anik Juli Dwi ASTUTI, Department of Geography, Ghent University (Belgium)

**Sustainability of mangrove silviculture in Malaysia: New insights from deep soil carbon**

Giovanna WOLSWIJK, Systems Ecology and Resource Management, Department of Organism Biology, Faculté des Sciences, Université Libre de Bruxelles (Belgium) & Mangrove Research Unit (MARU), Institute of Oceanography and Environment (INOS), Universiti Malaysia Terengganu (Malaysia)

**Groundwater pollution vulnerability analysis using the DRASTIC model a case of the Jimma area, Southwestern Ethiopia**

Beekan Gurmessa GUDETA, Laboratory for Applied Geology and Hydrogeology, Department of Geology, Ghent University (Belgium) & Jimma Institute of Technology, Faculty of Civil and Environmental Engineering, Jimma University (Ethiopia)

**The quality potential of Robusta coffee accessions from DR Congo**

Robrecht BOLLEN, Meise Botanic Garden, Meise (Belgium), Flanders Research Institute for Agriculture, Fisheries and Food (Belgium) & University of Leuven, Leuven (Belgium)

12.45 - 13.45

Lunch + Poster session

**POSTERS**

**Exploring perceptions of Wetland Ecosystem Services (WES) in Africa, methods and tools: A scoping review**

Géant CHUMA, Faculty of Agricultural and Environment Sciences, Université Evangélique en Afrique (UEA), Bukavu (Democratic Republic of Congo) & 2UR Spheres-Laplec, Department of Geography, University of Liège (Belgium)

**Mapping small inland wetlands in the South-Kivu province by integrating optical and SAR data with statistical models for accurate distribution assessment**

Géant CHUMA, Faculty of Agricultural and Environment Sciences, Université Evangélique en Afrique (UEA), Bukavu (Democratic Republic of Congo) & 2UR Spheres-Laplec, Department of Geography, University of Liège (Belgium)

**Effects of preceding upland rice and manuring on soil properties and cotton yield in the South Sudan area of Burkina Faso**

Arthur DIESSANA, Ministère de l'Agriculture, des Aménagements Hydro-agricoles et de la Mécanisation (Burkina Faso) & Département des sciences et gestion de l'environnement, University of Liège (Belgium)

**Mapping the pollution risk of the Mouhoun sub-watershed in Boromo in Burkina Faso**

Harouna KABORE, Department of Environmental Sciences and Management, University of Liège (Belgium)

**Assessment of spring water resource in Jimma zone, Southwestern Ethiopia**

Adisu Befekadu KEBEDE, Laboratory for Applied Geology and Hydrogeology, Department of Geology, Ghent University (Belgium) & Faculty of Civil and Environmental Engineering, Jimma Institute of Technology, Jimma University (Ethiopia)

13.45 - 15.15

**COMMUNICATIONS BY YOUNG RESEARCHERS – SESSION III**

Chair: Matthieu KERVYN, Vrije Universiteit Brussel & RAOS Member, Belgium

**Exploring the biodiversity of Polynesian lower mesophotic reefs: A thrilling crime scene investigation**

Xavier RAICK, Functional and Evolutionary Morphology Laboratory, University of Liège (Belgium)

**Land cover change in the Afro-alpine Mt. Guna: Implications on sustainable socio-economic and environmental management**

Adugnaw BIRHANU, Guna Tana Integrated Field Research and Development Center; Department of Natural Resource Management, (Ethiopia), Laboratory for Applied Geology and Hydrogeology, Department of Geology, Ghent University (Belgium) & Department of Geography, Ghent University (Belgium)

**Assessing conservation strategy impact: Forest cover change and carbon balance in protected vs. unprotected areas in Benin, West Africa**

Ibitoyé BIAH, Laboratory of Applied Ecology, Faculty of Agricultural Sciences, University of Abomey-Calavi (Benin)

**Estimation of groundwater recharge in the volcanic Aquifer of Gilgel Gibe catchment, Ethiopia**

Fayera Gudu TUFA, Laboratory for Applied Geology and Hydrogeology, Ghent University (Belgium) & Faculty of Civil and Environmental Engineering, Jimma University (Ethiopia)

**Geophysics at the frontlines of climate-induced water scarcity**

Khaoula CHARREK, Faculty of Sciences of Tunis, Georesources Laboratory, Centre for Water Research and Technologies (Tunisia) & Ghent University (Belgium)

**Human-edible products from Acacias: Overlooked treasures in the arid tropics — A plea for their valorization**

Moustapha Soungalo DRABO, Research Unit VEG-i-TEC, Faculty of Bioscience Engineering, Ghent University (Belgium) & Laboratoire de Biochimie et Immunologie Appliquées, Unité de formation en Science de la Vie et de la Terre, Université Joseph Ki-Zerbo (Burkina Faso)

15.15 - 15.45

Coffee break & Poster session

**POSTERS**

**Influence of temperature on acute and chronic toxicity of marine algal toxins — A case study with copepod *Nitokra spinipes***

Wenxin LIU, Blue Growth Research Lab, Ghent University (Belgium)

**A South Africa biodiversity data pipeline for wetlands and waterbirds**

Francis STROBBE, Operational Directorate Natural Environment, Royal Belgian Institute of Natural Sciences, Brussels (Belgium)

**Equity on the distribution and composition of street trees in the city of San Luis Potosí, México**

Luis Emir RAMÍREZ-CASTILLO, Instituto Potosino de Investigación Científica y Tecnológica (México)

**Unravelling the diversity and roles of plant volatile organic compounds in the Annonaceae family**

Jannat-E-TAJKIA, Department of Biology, Faculty of Science, Ghent University, (Belgium) & Department of Crop Botany, Faculty of Agriculture, Bangladesh Agricultural University (Bangladesh)

15.45 – 16.15

**General discussion and closing remarks**

Philippe GOYENS, RAOS Honorary Permanent Secretary, Belgium

**Best poster award**

Cecile BAETEMAN, Royal Belgian Institute of Natural Sciences & RAOS Member, Belgium

Thierry SMITH, Royal Belgian Institute of Natural Sciences & RAOS Member, Belgium