

Fourth Edition

Young Researchers Overseas Day



15 December 2020

Programme



Royal Academy for
Overseas Sciences 



Vlaanderen
verbeelding werkt



CONTENTS

Programme.....	1
Session I	7
Poster session A	10
Poster session B.....	15
Session II.....	20
Poster session C	25
Poster session D	35
Session III	46
Poster session E.....	51
Poster session F	57
Session IV	63
Poster session G	68
Poster session H.....	73
Session V.....	79
Index	83

PROGRAMME

- 08.30 Opening of the “conference room”
- 9.00 - 9.15 Welcome Address, Philippe Goyens, Permanent Secretary of the RAOS, Belgium
Introduction, Philippe Muchez, KULeuven & RAOS Member, Belgium

KEYNOTE LECTURE – RICCARDO PETRELLA

- 9.15 - 10.00 **Science and technology. For growth and power or for justice and universal rights?
The case of water and health.**

SESSION I – ORAL PRESENTATIONS

Chair: Sophie Vanwambeke, UCLouvain & RAOS member, Belgium

- 10.00 - 10.15 **Spatial accessibility to health facilities in Sub-Saharan Africa: comparing existing models with survey-based perceived accessibility**
BIHIN Jérémie, Université de Namur, Belgium
- 10.15 - 10.30 **The long journey to the US Border Wall. Migration policies, journeys and temporalities of migrants in Tijuana**
BOURGEOIS Catherine, Groupe de recherche sur l'action publique, Université libre de Bruxelles, Belgium; Chercheuse au Laboratoire Mixte International MESO

POSTER SESSIONS A AND B IN PARALLEL

- 10.30 - 11.00 *Session A – Landslides*; chair: Matthieu Kervyn, Vrije Universiteit Brussel & RAOS Member, Belgium
- A multi-sensor satellite method to spatial and temporal detection of landslides and flash floods in cloud-covered tropical environments: The western branch of the East African Rift**
DEJUNS Axel, Department of Earth Sciences, Royal Museum for Central Africa; Department of Hydrology and Hydraulic Engineering, Earth System Science, Vrije Universiteit Brussel, Belgium
- Unravelling natural and anthropogenic controls on the dynamics of deep-seated landslides in the tropics**
DILLE Antoine, Department of Earth Sciences, Royal Museum for Central Africa; Department of Geography, Earth System Science, Vrije Universiteit Brussel, Belgium
- Geotechnical characterization and slope stability analysis of soils along Gedo-Dilb road section, northern Ethiopia**
MEBRAHTU Gebreslassie, School of Earth Sciences, Mekelle University, Mekelle, Ethiopia
- Characteristics and distribution of natural and human-induced landslides in the Rift flank west of Lake Kivu (DR Congo)**
MAKI MATEO Jean-Claude, Centre de Recherche en Sciences Naturelles, Department of Geophysics, Lwiro, DR Congo; Université catholique de Louvain, Earth and Life Institute – Environmental Sciences, Louvain-La-Neuve, Belgium

- 10.30 - 11.00 *Session B – Archaeology*; chair: Bruno Overlaet, Art and History Museum & RAOS member, Belgium
Afrati-Arkades in context: rethinking an old excavation in South-Central Crete
 FADELLI Giacomo, University of Verona - Ghent University, Venice, Italy
- Linguistics and literature*; chair: Bart Desein, Ghent University & RAOS Member, Belgium
Le plurilinguisme à Mayotte à l'ère du numérique
 SAÏD Sinina, Université Le Havre Normandie, Le Havre, France
- La posture d'autocréateur de Mongo Beti**
 SHARMA Sonali, Delhi University, India
- Queer(y)ing the Chasms: Building Solidarities and Resistance Against Oppression in Queer Trinidadian Literature**
 BOMANS Bastien, Centre d'Enseignement et de Recherche en Études Postcoloniales (University of Liège), Department of Modern Languages, Belgium

SESSION II – ORAL PRESENTATIONS

Chair: Jan Rammeloo, Meise Botanic Garden & RAOS member, Belgium

- 11.00 - 11.15 **Regulatory decisions on interest rate restrictions in microfinance: Does competition matter?**
 CABALLERO-MONTES Tristan, University of Mons, Belgium
- 11.15 - 11.30 **The effect of rainforest disturbance on *Coffea canephora* in the Congo basin**
 DEPECKER Jonas, Meise Botanic Garden; KU Leuven, Belgium
- 11.30 - 11.45 **Landslide risk in the Kivu Rift: the legacy of a political and environmental crisis**
 DEPICKER Arthur, Department of Earth and Environmental Sciences, Division of Geography and Tourism, KU Leuven, Belgium
- 11.45 - 12.00 **Imaging the extent of salt water intrusion in the Luy river coastal aquifer (Binh Thuan) using electrical resistivity tomography**
 CONG THI Diep, Ghent University, Belgium; Vietnam Institute of Geosciences and Mineral Resources (VIGMR), Vietnam

POSTER SESSIONS C AND D IN PARALLEL

- 12.00 - 13.00 *Session C – Mangrove, ecosystems, biodiversity*; chair: Virginie Tilot, UCLouvain & RAOS member, Belgium and Patrick Van Damme, Ghent University & RAOS member, Belgium
- Until where can we hear Polynesian coral reefs from the open ocean?**
 RAICK Xavier, Laboratory of Functional and Evolutionary Morphology, Freshwater and Oceanic Science Unit of Research, B6c, University of Liege, Belgium; Chorus Research Institute, Phelma Minatec, Grenoble, France
- Marine distribution of *Lepidochelys olivacea* along the Pacific coast of Nicaragua outside the breeding season**
 MERTENS Géraldine, Vrije Universiteit Brussel, Ecology and Biodiversity, Elsene, Belgium.
- Ocean warming effects on a mesophotic antipatharian species from French Polynesia**
 GODEFROID Mathilde, Marine Biology Laboratory, Université Libre de Bruxelles, Brussels, Belgium
- Benchmarking the value of mangrove ecosystem goods and services in Ghana**
 ASANTE Frederick, Laboratory of Systems Ecology and Resource Management, Department of Organism Biology, Faculty of Sciences; Laboratory of Plant Biology and Nature Management, Ecology and Biodiversity, Vrije Universiteit Brussel, Brussels, Belgium

Mangrove Ecosystem Degradation by Shrimp Farming in the Pambala-Chilaw Lagoon Complex, Sri Lanka

OFORI Samuel A., Faculté des Sciences, Département de Biologie des Organismes, Écologie des Systèmes et Gestion des Ressources, Université Libre de Bruxelles, Belgique; Department of Botany, Faculty of Science, University of Ruhuna, Wellamadama, Matara, Sri Lanka; Department of Biology, Faculty of Science and Bioengineering Sciences, Vrije Universiteit Brussel, Brussels, Belgium; Dipartimento di Biologia, Università degli Studi di Firenze (UNIFI), Firenze, Italia

Groundwater, microplastic pollution; chair: Marijke Huysmans, Vrije Universiteit Brussel & RAOS member, Belgium

Mapping Groundwater Potential using Machine Learning methods: Application to Chad

GÓMEZ-ESCALONILLA, V., Departamento de Geodinámica. Estratigrafía y Paleontología. Facultad de Ciencias Geológicas. Universidad Complutense de Madrid, Spain

Geochemical characterization of groundwater and saltwater intrusion processes along the Luy River, Binh Thuan, Vietnam

PHAM DIEU Linh, Ghent University, Belgium; Vietnam Institute of Geosciences and Mineral Resources (VIGMR), Vietnam

Monitoring water quality and presence of microplastics in a glacial lake in N. Pakistan

REHANA, Sulaiman Bin Abdullah Aba Al-Khail-Centre for Interdisciplinary Research in Basic Science (SA-CIRBS), International Islamic University, Islamabad, Pakistan

Microplastic pollution: An evaluation of personal care products sold in Pakistan

HISAM Shumaila, SA-CIRBS, International Islamic University, Islamabad, Pakistan

12.00 - 13.00

Session D – Health; chair: Vincent De Brouwere, Institute for Tropical Medicine & RAOS member, Belgium

Acceptability study among mothers and key informants on Human Breast Milk Bank Establishment in Public Hospitals, Ethiopia: A qualitative study

AMEN ALEMNESH Petros, Principal Investigator, Ethiopian Public Health Institute (EPHI), Gulelle, Ethiopia

A Study to validate a questionnaire for the screening of patients at risk of chronic respiratory diseases in Ho Chi Minh City – Vietnam

TRAN THI Hoa Vi, Pham Ngoc Thach University of Medicine, Ho Chi Minh City, Vietnam

Effets d'exposition à la fumée et la poussière sur la fonction cardiorespiratoire et la capacité aérobie chez les charbonniers congolais

LOFUTA VUVU Pierre, Medicine of rehabilitation Department, Faculty of Medicine, University of Kinshasa, Mont-Amba, Kinshasa, DR Congo

Contribution à l'étude de la pollution particulaire dans l'air en milieu urbain: Cas des PM_{2,5} et PM₁₀ le long de la route Kasapa, dans la Ville de Lubumbashi en R.D.Congo

MPOYO KUMWIMBA Paul Didi, Faculté des Sciences Agronomiques, Université de Kamina, Département de Chimie, Faculté des Sciences, Université de Lubumbashi, Ligue pour la Protection et l'Observation de l'Ecosystème au Congo (ONG), RD Congo

Citizen-driven monitoring of freshwater snails that transmit the tropical disease schistosomiasis in Uganda

BREES Jef, Royal Museum for Central Africa, Tervuren, Department of Earth and Environmental Sciences, KU Leuven, Leuven-Heverlee, Belgium

Phytochemical profiling and anthelmintic activity of root barks of *Oldfieldia dactylophylla* (Welw.ex Oliv.) J. Léon, an Euphorbiaceae used in traditional Congolese medicine

MUYUMBA NONGA Welcome, Department of Chemistry-physics, High college training teachers of Lubumbashi, Lubumbashi, DR Congo; Unit of Therapeutic Chemistry and Pharmacognosy, University of Mons, Mons, Belgium; Laboratory of Pharmacognosy, Faculty of Pharmaceutical Sciences, University of Lubumbashi, Lubumbashi, RD Congo

Policy, human rights, refugees; chair: Geert Vervaeke, Universiteit Tilburg & RAOS member, the Netherlands

Police reform through the lens of human rights: The case of Ethiopia

ABERA Gebrehiwot, KU Leuven, Leuven, Lmeuven, Belgium

Pygmies Return to their Eden? From slow violence to open conflict in DR Congo's Kahuzi-Biega National Park

SIMPSON Fergus, Institute of Development Policy, University of Antwerp, Antwerp

Impact of Rohingyas on the vegetation cover at Kutupalong Camp in Ukhiya, Cox's bazar, Bangladesh

QUADER Mohammad Abdul, Associate Professor, Department of Geography and Environment, Jagannath University, Dhaka, Bangladesh

13.00 - 13.15 Break and chat

SESSION III – ORAL PRESENTATIONS

Chair: Pierre Meerts, Université Libre de Bruxelles & RAOS member, Belgium

13.15 - 13.30 **Contracts and certification in local value chains: Safe vegetables in Vietnam**

ENTHOVEN Laura, Earth and Life Institute, UCLouvain, Belgium

13.30 - 13.45 **Unravelling an ancient near eastern archival mystery: The provenance of the *Elamite Nineveh Letters* revised**

GORRIS Elynn, Centre d'études orientales, UCLouvain, Belgium

13.45 - 14.00 **The State of Katanga in the international world: Reassessing Tshombe's agency**

HENDRICKX Colin, Diplomatic Academy of Vienna and University of Vienna, Austria

14.00 - 14.15 **Could *Bacillus* and *Paenibacillus* be used to control fungal pathogens on Peanut crop without altering symbiosis bacteria?**

KORANGI Virginie, Microbial Processes and interactions, Gembloux Agro-Bio Tech, University of Liege, Belgium; Chemical and Agricultural Industries, Faculty of Agricultural Sciences, University of Kinshasa, RD Congo

POSTER SESSIONS E AND F IN PARALLEL

14.15 - 14.45 *Session E – Tectonics, geology*; Chair: Philippe Muchez, KU Leuven & RAOS member, Belgium

Tectonic style during the Archean in the Ntem Complex (NW Congo Craton, southern Cameroon): Case of the “Nyabizan-greenstone belt (NGB)” and “Sangmelima granite-greenstone belt (SGB)”

AKAME Joseph Martial, Laboratoire G-Time (Géochimie: Tracage isotopique, minéralogique et élémentaire). Université Libre de Bruxelles, Brussels, Belgium

Salt tectonics and Cu-Co mineralization in the Katanga Copperbelt

MAMBWE Pascal, Department of Earth and Environmental Sciences, KU Leuven, Belgium

Tephrostratigraphy of the Bora-Baricha-Tullu Moye (BBTM) volcanic system in the Central Main Ethiopian Rift

TADESSE Amdemichael Zafu, Department of Geosciences, Environment and Society, Université Libre De Bruxelles, Belgium

Gold mineralization in the Karagwe-Ankole belt: Auriferous quartz veins from the Byumba deposit (Rwanda)

WOUTERS Sander, Department of Earth and Environmental Sciences, KU Leuven, Belgium.

By-products binders from industrial and agricultural process for improving the physico-mechanical properties and durability of compressed earth blocks

NSHIMIYIMANA Philbert, Institut 2iE, Ouagadougou, Burkina Faso; Université de Liège, Liège, Belgium.

14.15 - 14.45 *Session F – Food*; Chair: Philippe Goyens, Permanent Secretary of the RAOS, Belgium

Dietary diversity as a hematological status determinant during pregnancy in Ethiopia: Community-based cross-sectional study

ALEMAYEHU CHEKOL Dawit, Associate Researcher, Ethiopian Public Health Institute, Ethiopia

Estimation of Lead exposure of Peulh cheese consumers from southern Benin

DOSSOU Alphonse, Department of Food Science, Faculty of Veterinary Medicine, University of Liège, Liège, Belgium; Laboratory of food sciences, Faculty of Agronomic Sciences, University of Abomey-Calavi, Cotonou, Benin

La revalorisation des produits de terroir au Maroc: reconstruction d'un patrimoine alimentaire et émancipation des productrices

M'BARKI Rayyane, Laplec, UR SPHERES, Université de Liège, Belgique

Isolation, antagonistic activity, chemical characterization of soil-borne and plant-beneficial bacteria from Burundi

NIMBESHAHO François, University of Burundi, Bujumbura, Burundi; University of Liège, Gembloux Agro Bio Tech, Belgium

SESSION IV – ORAL PRESENTATIONS

Chair: Philippe Goyens, Permanent Secretary of the RAOS, Belgium & Georges Van Goethem, RAOS member, Belgium

14.45 - 15.00 **Severe acute malnutrition in childhood, chronic diseases and human capital in adulthood in the Democratic Republic of Congo: the Lwiro Cohort Study**

MWENE-BATU Pacifique, École Régionale de Santé Publique, Université Catholique de Bukavu, RD Congo; École de Santé Publique, Université Libre de Bruxelles, Belgium

15.00 - 15.15 **The transformation of farm production systems in the West Bank (Palestinian Territory): a path towards enhanced livelihood conditions for small-scale farmers?**

PANOSETTI Fadia, CECID, Université Libre de Bruxelles, Belgium

15.15 - 15.30 **Techno-economic assessment of an off-grid energy solution for use in informal settlements of Western Africa - Case study of the settlement of Old Fadama, Accra, Ghana**

PASQUET Thibaut, Technical University of Denmark, Denmark

15.30 - 15.45 **Negative effects of cattle on soil carbon and nutrient pools reversed by megaherbivores**

SITTERS Judith, Ecology and Biodiversity, Department Biology, Vrije Universiteit Brussel, Belgium; Mpala Research Centre, Nanyuki, Kenya

15.45 - 16.00 Break and chat

POSTER SESSIONS G AND H IN PARALLEL

16.00 - 16.30 *Session G – Land management, runoff, urban gullyng*; Chair: Cécile Baeteman, Royal Belgian Institute of Natural Sciences & RAOS member, Belgium

Runoff response to land management in small catchments near Lake Tana, Ethiopia

ASSAYE Habtamu, Department of Geography, Ghent University, Ghent, Belgium; Department of Natural Resource Management, Bahir Dar University, Bahir Dar, Ethiopia

Assessing the impacts of urban gullying in the Democratic Republic of Congo

ILOMBE MAWE Guy, University of Liege, Department of Geography, Liege, Belgium; Université Officielle de Bukavu, Department of Geology, Bukavu, RD Congo

Understanding the effectiveness of measures aiming to stabilize urban mega gullies in Kinshasa

LUTETE LANDU Eric, University of Liege, department of Geography, Liege, Belgium; Université de Kinshasa, Geoscience Department, Kinshasa, RD Congo

Characterization of Landscape Change in Rusizi National Park in Burundi

NSABIYUMVA Jean Marie Vianney, Ph D student at University of Burundi and Assistant-teacher at Gitega Polytechnic University, Gitega, Burundi

16.00 - 16.30

Session H – Urbanism, architecture; Chair: Johan Lagae, Ghent University & RAOS member, Belgium

Multi-layered public spaces in informal settlements as an asset for neighborhood-upgrading: A case study in Lahore, Pakistan

ARIF MASHHOOD M., Department of Architecture, KULeuven-Campus Sint-Lucas, Ghent, Belgium

Contribution of Livelihood opportunities to the growth of Collective Spaces in Informal Settlements: Learning from Dar es Salaam-Tanzania

LUTTA Jacob, Department of Architecture, KULeuven-Campus Sint-Lucas, Ghent. Urban Projects, Collective Spaces and Local Identities Research Group, Ghent, Belgium

Adaptive Reuse of Colonial Built Heritage: The Case of the former Collège du Saint-Esprit, Bujumbura, Burundi

UWAMUNGU Emile, University of Hasselt, Hasselt, Belgium

Pour une architecture du Care: Repenser l'infrastructure hospitalière en République Démocratique du Congo; le cas de l'hôpital général de référence de Makala

LUMFUANKENDA BUNGIENA Trésor, Faculté d'Architecture La Cambre Horta, Université Libre de Bruxelles, Belgique

Etude technique des maisons métalliques faisant partie du patrimoine du Kongo – Central

MPEMBA NKOLE KABONGO Aris, Faculté des Sciences Appliquées, Université de Liège, Belgique

SESSION V – ORAL PRESENTATIONS

Chair: Philippe De Maeyer, Ghent University & RAOS member, Belgium

16.30 - 16.45 **Deconstructing borders. Transnational mobility strategies of south sudanese refugees in northern Uganda**

VANCLUYSEN Sarah, Institute of Development Policy, University of Antwerp, Belgium

16.45 - 17.00 **“Ethnic minority philosophy” in contemporary China: History and prospects**

VAN DEN STOCK Ady, Department of Languages and Cultures, Ghent University, Belgium

17.00 - 17.15 **Global-scale dispersal and connectivity in mangroves**

VAN DER STOCKEN Tom, Jet Propulsion Laboratory, California Institute of Technology, United States of America & Vrije Universiteit Brussel, Belgium

17.15 - 17.30 Concluding remarks by Philippe De Maeyer, Ghent University & RAOS member and Philippe Goyens, Permanent Secretary of the RAOS, Belgium

17.30 - 18.00 Chat