

# Great African Rift

## GDR **RIFT** *interdisciplinary* colloquium

MAASAI MARA  
UNIVERSITY

May 13th to 17th, 2024  
Narok, KENYA

<https://rift-cnrs.fr/>  
[rift.colloquium2024@gmail.com](mailto:rift.colloquium2024@gmail.com)



# 3rd **GDR Rift** *Interdisciplinary colloquium*

## MONDAY 13th

8:30 AM to 10 PM	(90mn)	OPENING CEREMONY
10:30 AM to 12 PM	(90mn)	DELEGATES SPEECH & SIGNATURE MoU
12 PM to 12:30 PM	(30mn)	KEYNOTE LECTURE I
2 PM to 4:30 PM	(150mn)	SETTLEMENT / ENERGY
5:00 PM to 6 PM	(60mn)	POSTER SESSION I
5:30 PM to 6 PM	(30mn)	FRENCH SCIENTIFIC COOPERATION

## TUESDAY 14th

8:30 to 9 AM	(30mn)	KEYNOTE LECTURE II
9 to 10:30 AM	(90mn)	CAUSES & EFFECTS I / HEALTH I
11 to 12:30 PM	(90mn)	PRESERVATION I / HEALTH II
12:30 to 1 PM	(30mn)	KEYNOTE LECTURE III
2 to 4:30 PM	(150mn)	COSMOPOLITICS / MODELLING
5 to 6 PM	(60mn)	POSTER SESSION II

## WEDNESDAY 15th

8:30 AM to 9 AM	(30mn)	KEYNOTE LECTURE IV
9 AM to 10:30 AM	(90mn)	CAUSES & EFFECTS II / PRESERVATION II
11 AM to 1PM	(120mn)	WORKSHOPS I & II
2 PM to 4 PM	(120mn)	WORKSHOPS III & IV

## THURSDAY 16th & FRIDAY 17th

From 8 AM FIELD VISITS at Mt SUSWA & OL NJORUA GORGE



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**DELEGATES SPEECH**  
10:30 AM to 12 PM (90mn)  
Conference Hall

Prof. Bilitia Godrick (Maasai Mara University)  
*Deputy Vice-Chancellor - Academics & Student's affairs*

Prof. Jean-Baptiste Eczet (EHESS)  
*Deputy director of the GDR Rift / Scientific comity of the colloquium*

Prof. Mathieu Gérin (French Embassy)  
*Attaché for Science and Higher Education / Deputy Head of Cooperation*

Prof. Christel Tiberi (CNRS)  
*Director of the GDR Rift / Scientific comity of the colloquium*

Prof. Leopoldo Iribarren (EHESS)  
*Vice-Président of the EHESS in charge of International Relations*

Prof. Aloo-Obudho (Maasai Mara University)  
*Vice-Chancellor*

**KEYNOTE SESSIONS**  
Conference Hall

Lecture I / Monday 13th / 12 PM to 12:30 PM  
**Prof. Eunice Wamuyu Githae** - Ag DVC - AFPD. Chuka University  
*Innovative approaches for ecology and biodiversity conservation in the Rift*

Lecture II / Tuesday 14th / 8:30 to 9 AM  
**Prof. Jean-Renaud Boisserie** - CNRS & CFEE  
*The interdisciplinary facets of deep time research*

Lecture III / Tuesday 14th / 12:30 to 1 PM  
**Prof. Cédric Gaucherel** - INRAE  
*How to train a model: building a possibilistic model for understanding social-ecological systems*

Lecture IV / Wednesday 15th / 8:30 AM to 9 AM  
**Prof. Karoli Njao** - NM-AIST / MEWES  
*Energy versus resources paradigm in the Rift*

**FRENCH SCIENTIFIC COOPERATION & FUNDING OPPORTUNITIES**  
Conference Hall

Conference / Monday 13th / 5:30 PM to 6 PM  
**Mathieu Guérin** - French Embassy



## SETTLEMENT

MONDAY : 2 PM to 4:30 PM

Room : Conference Hall

### **Misganaw Gebremichael Woldetsadik**

Student, PACEA, University of Bordeaux

*Stone Tool Production Strategies and Functional Properties in Middle Pleistocene Herto, Middle Awash, Ethiopia.*

### **Alemu Gebresilassie Wolde**

Lecturer, Wolaita Sodo University

*Reduction Sequence and Toth Analysis of the Ledi-Geraru Oldowan Lithics from Bokol Dora 1 (BD1) Assemblage*

### **Desta Haileyesus**

Lecturer, Mekelle University

*A Typological Classification And Analysis Of Potsherds From Mariam Nazret, Tigray, Ethiopia*

### **Endris Hussien Siraj**

Lecturer, Haramaya University

*Preliminary Survey Results from a Medieval Islamic Settlement Site in Eastern Ethiopia: First Archaeological Insight from Fedis”*

### **Laura Maréchal**

Postdoctoral Researcher ARCAN (University of Geneva)

*Early agropastoralist societies in the Gobaad basin (Republic of Djibouti): biological diversity, funerary practices and prospects on human-environment interactions and societal transformations during the Middle Holocene*

### **Garedow Abiba Benja**

Phd student, Addis Ababa University

*Ethnoarchaeology: Landscape and Materiality of Gadaa Ritual Practices of Borana Pastoral Communities in East Africa*

### **Anne-Lise Goujon**

Phd, Deputy Director, French Center for Ethiopian studies

*Are the soul and the skills of Ethiopian potters in danger ?*

MODERATOR : David Pleurdeau



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## ENERGY

MONDAY : 2 PM to 4:30 PM

Room : LT MH-01

### **Lydia Roos**

Senior Research, CNRS/LPNHE-IN2P3

*Prospects for geothermal studies using muography in Kenya*

### **Benoit Hazard**

Researcher, CNRS

*Geothermal energy, a resource for locals?*

### **Edmund K. Gathuru**

Lecturer, Maasai Mara University

*Analysis of the kenyan power system and its integration into the Eastern Africa power pool*

### **Adam Faraji**

Phd student, The Nelson Mandela African Institution of science and Technology

*Gravitational water vortex energy generation from small water bodies for isolated settlements in the Great Rift valley*

### **Mohamed Soud Mohamed**

Student, The Nelson Mandela African Institution of Science and Technology

*Anaerobic digestion process enhancement through the exploration of iron waste nanoparticles from grinding machines*

### **Vicent Marwa Kikohi**

Student, The Nelson Mandela African Institution of Science and Technology

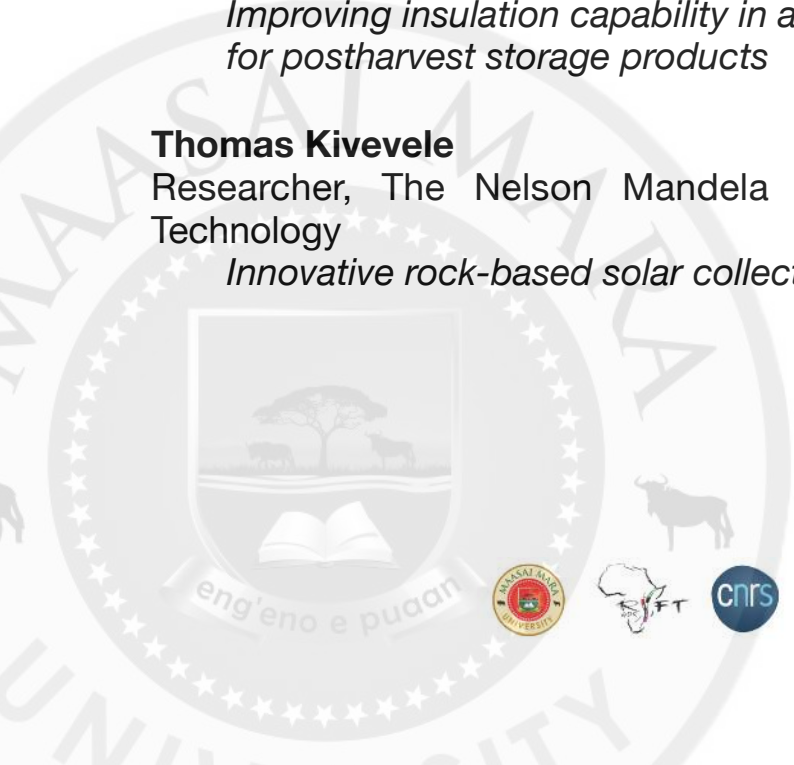
*Improving insulation capability in a performance analysis of a solar cooler for postharvest storage products*

### **Thomas Kivevele**

Researcher, The Nelson Mandela African Institution of Science and Technology

*Innovative rock-based solar collectors for drying applications*

MODERATOR : Motochi Isaac



## **CAUSES & EFFECTS I**

TUESDAY : 9 AM to 10:30 AM

Room : LT MH-01

### **Makwata Harun Omukuba**

Faculty member, Maasai Mara University

*Maasai Mau Complex Degradation: Effects On Maasai Culture And Human Wildlife Conflict*

### **Otieno Evans**

Lecturer, Turkana University College

*Factors Driving the Exclusion of El Molo in the North Western Region in Kenya*

### **Judith Adeline Medifo Dadji**

Phd student, EHESS

*Uses and representations of water by pastoralists in East Africa*

### **Mpayan Cosmas Emejen**

Student, Maasai Mara University

*Investigation and Analysis of Conflict among Pastoralist in Baragoi Area Samburu County Using Regression*

### **Stephanie Gautier**

Associate Professor, University of Montpellier

*A summer school for geological hazards assessment and risk evaluation in North Tanzania*

*MODERATOR : Jean-Baptiste Eczet*



## CAUSES & EFFECTS II

WEDNESDAY : 9 AM to 10:30 AM

Room : Conference Hall

### **Hélène Celle & Pierre Nevers**

Professor, Université de Franche-Comté / Postdoctoral researcher, Université de Franche-Comté

*Methodology for studying volcanic aquifers combining geophysics, geology, hydrogeology towards an application in the Rift (Tanzania)*

### **Peter Mwirigi**

Lecturer, Dedan Kimathi University of Technology

*Carbon sequestration as influenced by different plant diversity at Dedan Kimathi University coffee farm in comparison to selected farmers in Central Kenya*

### **Haimanot Mulugeta**

Researcher, Amhara Agricultural Research Institute

*Evaluate the effect of stocking density on the physicochemical characteristics of pond water and survival rate of male Nile tilapia (*Oreochromis Niloticus*) Bahir Dar, Ethiopia*

### **Gordian Rocky Mataba**

Lecturer, The Nelson Mandela African Institution of Science and Technology

*Impact of the anthropogenic pollution and artisanal fishing on the population of Tilapia fish (*Oreochromis niloticus* and *Oreochromis amphimelas*) in Lake Manyara, Northern Tanzania*

### **Gracia Luis Mandava Jaime**

Researcher, Lurio University- Faculty of Natural Sciences

*Biodiversity survey of fresh water fishes within Gurangoa National Park, Central Mozambique*

MODERATOR : Sammy Mutisya



## **PRESERVATION I**

TUESDAY : 11 AM to 12:30 PM

Room : LT MH-01

### **Evance Ouya**

Researcher at Maasai Mara University & Moi University

*Impacts Of Anthropogenic Habitat Modification On Mammal Diversity At The Mau Forest Complex, Kenya*

### **Tewodros Moges Habetemichael**

Graduate student, Addis Ababa Universtiy

*Safeguarding Our Shared Heritage: A Comprehensive Study of Cultural, Human, and Wildlife Contributions to Biodiversity Conservation in the Rift*

### **Lydia Nashipay Moshira**

Researcher, Maasai Mara University

*An Assessment of Ecosystem-based adaption approach in flood risk management in upper Suswa-magadi catchment area of Narok county, Kenya*

### **Sintayehu Gobezie Abebe**

Technician and Researcher, South Ethiopia Public Health; Lower Omo Natural medicine association

*Ethnobotany towards Biodiversity conservation and food security from ethnobotanical survey of wild edible plants among the Mursi, Bodi and Bacha Communities in lower Omo valley of south Omo zone, southern Ethiopia*

### **Ben R. Ole Koissaba**

PhD, Rarin Consulting Services

*Appreciating Traditional Knowledge in Nature-Based Solutions to Climate Change*


*MODERATOR : Jedidah Nankaya*



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**PRESERVATION II**  
WEDNESDAY : 9 AM to 10:30 AM  
Room : LT MH-01

**Wannaw Hailemariam**

Researcher, Ethiopian Heritage Authority (EHA)

*Conservational Challenges of the World Heritage Site of Konso*

**Jane M. Macharia Kanyi**

Researcher, National Museums of Kenya

*To assess the importance of botanic gardens as biodiversity habitats a study was carried out in Nairobi Museum Botanic Garden (NMBG)*

**Janet Atho Ekalo**

Phd student, Kenyatta University

*Tree Conservation Challenges among the Indigenous Pastoral Rendille Community in Marsabit, Kenya*

**Hiluf Berhe Woldeyohannes**

Professor, Mekelle University

*The state of Cultural Heritage of Tigray during the war from November 2020 to November 2022*

*MODERATOR : Benoit Hazard*



## HEALTH I

TUESDAY : 9 AM to 10:30 AM

Room : Conference Hall

### **Gugulethu Tarakini**

Researcher, Research and Education for Sustainable Actions

*The Role of Media During COVID-19 Global Outbreak: A Conservation Perspective*

### **Kennedy Karani Onyiko**

Senior Lecturer, Maasai Mara University

*A Youth Is Sufferer: Navigating Youth Development Challenges And Charting Pathways To Solutions In Kenya*

### **Matiwos Damitew Yifatu**

Student, Politecnico Milano 1863 /Institute of Ethiopian study's Addis Ababa University

*Indigenous Medicinal Practitioners in Ethiopia: A Case Study of Herbal Medicinal Pharmacies, Clinics, and their Human Herbal Remedies in Addis Ababa*

### **Olewe, Brian Marvis Waswala**

Researcher, Kenya National Commission for UNESCO

*Water Quality and Quantitative Microbial Risk Assessment in Shared Wetlands: case study of Narok West Subcounty, Kenya*

### **Wycliffe Wanzala**

Professor, Maasai Mara University

*The Invasive Alien Species Assessment and their Control: A Global Concern and Threat to Biodiversity*

MODERATOR : Patrick Gudda



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## HEALTH II

TUESDAY : 11 AM to 12:30 PM

Room : Conference Hall

### **Essau Kipyego Serem**

Lecturer, Maasai Mara University

*Sero-Prevalence and Risk Factor Of Infectious Bovine Rhinotracheitis Virus (Type 1) in Meru County, Kenya*

### **Mwema Felix Mwema**

Lecturer, The Nelson Mandela African Institution of Science and Technology

*Spatial Assessment of Fluoride Contamination in Cultivated and Uncultivated Soils Along the Slopes of Mount Meru*

### **Kehongo Moses Nyanguru**

Student, Maasai Mara University

*Antimycobacterial Activity, Phytochemical Profile, and Molecular Docking of Albizia zygia (Dc.) J.F. Macrb, Used in Treatment of TB in Kenya*

### **Revocatus Lazaro Machunda**

Associate Professor, The Nelson Mandela African Institution of Science and Technology

*Improving nutrients availability of high fluoride laden manure in the rift for sustainable crop production*

MODERATOR : Ole Masago



# COSMOPOLITICS

TUESDAY : 2 PM to 4:30 PM

Room : Conference Hall

## **Laurent Gabail**

Associate professor, Université Toulouse-Jean Jaurès

*From West to East: Comparative perspectives on the relationships between Age, Dance and Ritual in Africa*

## **Bursuna Ejere**

Phd student, Maasai Mara University

*Inter-Ethnic Conflict Resolution Through Cultural Norms and Practices in Laisamis Sub-County, Marsabit County, Kenya*

## **Tamas Régi**

Associate professor/museologist, Museum of Ethnography, Budapest

*The Politics of Magic in the Kilimanjaro Region*

## **Lily Chemutai Koske**

Lecturer, Maasai Mara University

*Language as a tool for Environmental Awareness, Cultural Sensitivity, and Responsible Tourism Practices: Case of French for Tourism and Hospitality in Kenyan Universities*

## **Justus Owino**

Researcher/Lecturer, Kenya Water Institute

*Breaking Taboos, building a Future: Analyzing Youth and Women's Knowledge and Attitudes towards Humanure for Circular Sanitation Economy in the Kenyan Rift*

## **Augustine Jeke**

Lecturer, Midlands State University

*University community attitudes, knowledge, and perceptions towards vervet monkey *Chlorocebus pygerythrus* (F. Cuvier 1821): A case of Chinhoyi University of Technology campus, Zimbabwe.*

## **Edward Lekaichu Ole Kateiya**

Lecturer, Maasai Mara University

*Securing Community Land Rights and Access for Climate Action: A Case of the Marginalized Indigenous Ilchamus Community in Baringo County.*

MODERATOR : Jean-Baptiste Eczet



## MODELING

TUESDAY : 2 PM to 4:30 PM

Room : LT MH-01

### John Yawe

Phd student, The Nelson Mandela African Institution of Science and Technology

*Mathematical Modeling and Performance Analysis of a Novel Solar-Biogas Hybrid Dryer for Drying Agricultural Products*

### Remigius Gama

Lecturer, University of Dar es Salaam

*Geological Investigation of Hanang Volcano: A Comprehensive Analysis of the 3<sup>rd</sup> December 2023 Debris Flow Catastrophe and Structural Dynamics*

### Pierre Linchamps

Phd, University of Witwatersrand/Museum National d'Histoire Naturelle

*Reconstructing Quaternary paleoclimates from the faunal composition of African Paleoanthropological sites with machine learning*

### Bisrat Gebreegziabher Araya

Phd student, PACEA, University of Bordeaux

*A tropic shift of ancient Hominids within their ecosystems: qualitative modelling of ecological dynamics in Plio-Pleistocene from the Turkana depression, eastern Africa*

### Rahab.N. Kinyanjui & Jean-Philippe Brugal

Researcher, National Museums of Kenya / Senior Researcher, CNRS

*Phytolith assemblages from Modern Herbivores' Teeth-Ecometrical proxy for reconstructing mammalian paleodiets*

### Edwin de Jager

Phd Student, Department of Archaeology, University of Cambridge

*Unveiling Hominin Brain Evolution through Digital Endocast Analysis*

### Kilimo Thomas

Environmentalism, GIS Developer. Save The Elephants Organization.

*AfriGIS Software Development*

MODERATOR : Samson Mabwoga



## WORKSHOPS

WEDNESDAY

11 AM to 1PM & 2 PM to 4 PM

- I. *How to write an article ?*  
with J.-R. Boisserie (Conference Hall)
- II. *How to write a research project ?*  
with Jessie Cauliez (LT MH-01)
- III. *How to name things in multilingual & interdisciplinary researches ?*  
with J.-B. Eczet (Conference Hall)
- IV. *Interdisciplinary practice.*  
with Christel Tiberi (LT MH-01)

## FIELD VISITS

### **Mt SUSWA**

THURSDAY 16th, from 8 AM

Crater walk  
Caves exploration  
Steam vent water collection  
Maasai village visit



### **OL NJORUA GORGE**

FRIDAY 17th, from 8 AM

Gorge walk  
Community experience on  
invasive weeds  
Tree planting  
Meeting with pupils



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# 3rd **GDR Rift** *Interdisciplinary colloquium*

Director of the GDR Rift :

Pr. Christel Tiberi – *CNRS*

Scientific comity (by alphabetic order) :

Mr. Marjan Abdallah – *Maasai Mara University*

Pr. Romulus Abila – *Maasai Mara University*

Mr. Bakari Chaka – *Maasai Mara University*

Pr. Jean-Baptiste Eczet – *EHESS*

Dr. Charity Konana – *Maasai Mara University*

Dr. Aloys Osano – *Maasai Mara University*

Pr. Olga Otero – *Université de Poitiers*

Mr. Lankeu Reson – *Maasai Mara University*

Pr. Justus Simiyu – *Maasai Mara University*

Dr. Antoine Souron – *Université de Bordeaux*

