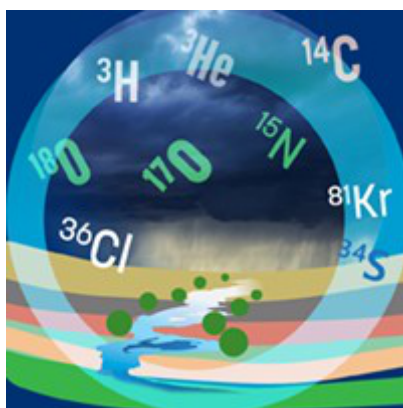


## Session Program

20–24 May 2019



## International Symposium on Isotope Hydrology: Advancing the Understanding of Water Cycle Processes CN-271

### *Poster Session 3*

Vienna International Centre, Board Room C  
C Building, 4th Floor

## Thursday 23 May

14:45

### Poster Session 3: Isotopes in precipitation; Isotopes in water balance modelling and mapping; Analytical methods

Poster Session | Location: Vienna International Centre, Posters Area - C04, C Building, 4th Floor

#### Ten years of operation of the Belo Horizonte-CDTN GNIP station, Brazil

Speaker

Eliana Aparecida Nonato Knupp

#### Isotope and chemical characteristics of natural waters in the Lower Mahaweli Basin, Sri Lanka

Speaker

Mrs Jasinhage Dona Chaturangi Gunasekara

#### Groundwater isotope ratios reflecting convective and stratiform palaeoprecipitation fractions in Bauru aquifer system, Brazil

Speaker

Hung Kiang Chang

#### Tritium Information Management System (TRIMS): New software to improve performance outcomes of low-level liquid scintillation counting laboratories

Speaker

Dagnachew Legesse Belachew

#### Exploring the use of water isotopes to investigate fast-forming rain events at a mid-latitude site in Southern Italy

Speaker

Dr Luisa Stellato

#### Spatio-temporal patterns of stream hydrochemistry in a glacierized alpine catchment

Speaker

Mr Michael Engel

#### Environmental isotope applications in Mediterranean coastal plains of Turkey: effects of irrigation

Speaker

Dr Pinar Avci

#### Stable water isotopes in precipitation across the Himalayas: constraints on sources of moisture

Speaker

Prof. Ghulam Jeelani

#### Mapping environmental tritium activity concentration in recent precipitation in Spain to trace moisture sources in the hydrological cycle

Speaker

Dr Javier Rodríguez Arévalo

#### Numerical groundwater modeling of the ex industrial mining complex Los Gigantes, Cordoba, Argentina

Speaker

Daniel Cicerone

#### Variation in tritium activity in rainfall in Paarl, South Africa and its bearing on understanding groundwater recharge processes

**Speaker**

Prof. Jodie Ann Miller

**Using stable isotopes to conceptualize groundwater flow system in a tropical wetland****Speaker**

Dr Cynthia Nonterah

**Groundwater and surface water interaction in a recharge area of the Guarani Aquifer System (GAS)****Speaker**

Ludmila Batista

**Identifying and correcting the gas matrix effects on a cavity ring-down water stable isotope analyzer****Speaker**

Mr Benjamin Gralher

**Chlorine isotope analysis of chloride solution using UV-FSLA-MC-ICP-MS****Speaker**

Dr Masaaki Musashi

**Measuring water stable isotopes in tree xylem in situ: The stem borehole equilibration method****Speaker**

Ms Kathrin Kühnhammer

**Trace isotope detection of Cl, I, and Cs at the Vienna Environmental Research Accelerator - routine & ventures****Speaker**

Johannes Lachner

**Boron isotope analyses in fluid samples: PTIMS versus MC-ICP-MS (Neptune Plus)****Speaker**

Dr Maddalena Pennisi

**New noble gas analytical capabilities at the CSIRO Environmental Tracer Laboratory, Australia****Speaker**

Christoph Gerber

**First application of a newly developed field gas extraction device to date old groundwater****Speaker**

Dr Roland Bäumle

**Assessing the tritium levels in the laboratory atmosphere to avoid contamination in ultra-low level analysis****Speaker**

Dr Eliana Aparecida Nonato Knupp

**New in-situ samplers for Krypton-85 for groundwater dating****Speaker**

Mrs Stéphanie Musy

**Triple isotope analyses ( $\delta^2\text{H}$ ,  $\delta^{18}\text{O}$ ,  $\delta^{17}\text{O}$ ) of water with the aid of laser spectroscopy: analytical performance of Picarro L2140-i spectrometer****Speaker**

Mrs Anna Magdalena Pierchala

**Development of a conceptual groundwater model in an intermountain Andean aquifer with the support of water stable isotopes: Uspallata valley, Argentina**

**Speaker**

Nerina Belen Lana

**Modeling of snowmelt water from a snow pit in Tibetan Plateau**

**Speaker**

Mr Ke Wang

**Stable isotopes for estimation of urban groundwater balance in the Kharkiv city, East Ukraine**

**Speaker**

Mr Dmytro Diadin

**Analysis of groundwater recharge from isoscapes of precipitation and shallow groundwater in the Northwest of Colombia**

**Speaker**

Prof. Teresita Betancur

**High-resolution modeling of flow partitioning using water isotopes and electrical conductivity for model calibration**

**Speaker**

Giovanny Mauricio Mosquera Rojas

**Hydrogeological responses in tropical mountainous springs**

**Speaker**

Mr Luis Daniel Rojas-Jimenez

**Determining the origin of leakage water in El Cajon dam, using stable isotopes**

**Speaker**

Mrs Tirza Carolina Contreras Galeano

**Maintaining the VPDB scale for  $\delta^{13}\text{C}$ : reference materials at the IAEA**

**Speaker**

Sergey Assonov

**Illustrating the role of isotopes to understand hydrologic processes in large-plain environments**

**Speaker**

María Emilia Zabala

**Groundwater dynamics of the Murunkan sedimentary basin in Northern Sri Lanka: an environmental isotope study**

**Speaker**

Mr Mahinda Premathilake Karunadhipathige

**Study of springs and karst springs using environmental isotopes  $2\text{H}$  and  $18\text{O}$  in the Lagoa Santa karst region, Brazil**

**Speaker**

Ms Carolina Gomes Ribeiro

**Environmental isotopes for assessing water resources in a semiarid biome in Brazil**

**Speaker**

Mr Vinicius Ferreira

**Tracing surface water dynamics and groundwater recharge at Inle Lake (Southern Shan State, Myanmar) using stable water isotopes**

**Speaker**  
Ms Viviana Re

### **Boron isotopic composition in fluvial and rain water from the Adige basin (Northern Italy)**

**Speaker**  
Dr Maddalena Pennisi

### **Geochemical monitoring and flow rates of glacial drainages in the Bayelva catchment (Ny-Ålesund area, Svalbard)**

**Speaker**  
Dr Ilaria Baneschi

### **Comparison of isotope hydrological patterns of large rivers in Germany (Weser and Rhine Basin)**

**Speaker**  
Dr Paul Koeniger

### **Hydro-chemical detection and quantification of permafrost degradation in the Eastern European Alps**

**Speaker**  
Sabine Kraushaar

### **Isotope and geochemical tracers for delineating the hydrogeological functioning of a low altitude Mediterranean peat bog (Corsica Island, France)**

**Speakers**  
Sébastien SANTONI, Prof. Frederic HUNEAU

### **Isotopic and hydrochemical assessment of groundwater on the Santa Elena Peninsula (Ecuador): implications for artificial recharge**

**Speaker**  
Daniel Omar Garces Leon

### **Regional stable isotope signatures in precipitation and river runoff in Switzerland**

**Speaker**  
Ulrich Schotterer

### **Stable isotopic composition of precipitation and the environmental controls in Bangladesh**

**Speaker**  
Mr Mohammad Masud Karim

### **The latitude effect on the stable isotopic composition of precipitation across Thailand**

**Speaker**  
Mr Jeerapong Laonamsai

### **Climatic controls over the isotopic composition of precipitation in Rio Claro (SP), Brazil**

**Speaker**  
Ms Vinicius dos Santos

### **Spatial and temporal variability of stable isotopes in precipitation in Kumamoto, southern Japan**

**Speaker**  
Prof. Kimpei Ichiyanagi

### **Spatial and temporal isotopic characterization ( $2\text{H}/1\text{H}$ and $18\text{O}/16\text{O}$ ) of modern day precipitation in the Bale Mountains, Ethiopia**

**Speaker**  
Bruk Lemma Debebe

**Spatial variability of tritium in precipitation during single storm events and its bearing on hydrological studies****Speaker**

Jared van Rooyen

**Isotopic composition of precipitation at two stations in Antananarivo: a comparative study****Speaker**

Dr Voahirana Ramaroson

**Isotopic composition of monsoon rain in the Salalah area, southern Oman****Speaker**

Mr Thomas Harald Müller

**Seasonal variation of the latitude effect in a mid-latitude region****Speaker**

Dr Masahiro Tanoue

**Middle Earth – Stable isotope investigation of precipitation sources in Romania, eastern Europe****Speaker**

Dr Aurel Perşoiu

**Water isotopes in precipitation in Turkey****Speaker**

Naciye Nur Ozyurt

**Stable isotope composition ( $\delta^2\text{H}$ ,  $\delta^{18}\text{O}$  and  $\delta^{17}\text{O}$ ) of rainfall in Benin, West Africa****Speaker**

Christine Vallet-Coulomb

**Water isotopes in Beijing Basin: Monitoring for climate and water changes in a monsoon affected arid region****Speaker**

Prof. Zhonghe Pang

**Persistent organic compounds and water stable isotopes in rain in Buenos Aires City, Argentina****Speaker**

Karina Silvia Beatriz Miglioranza

**Temporal variation of stable water isotope ratios at Neumayer-III station, East Antarctica****Speaker**

Mr Saeid Bagheri Dastgerdi

**Filling white spots in Central Asia – a Tajik network of isotopes in precipitation****Speaker**

Mr Stephan Matthias Weise

**The new GNIP network in Brazil: an example of sound institutional arrangements****Speaker**

Andrea Franzini

**Real-time observations of water stable isotope dynamics during rainfall and throughfall events****Speaker**

Dr Barbara Herbstritt

### **Relation between the water isotopic composition in the North Atlantic marine boundary layer and the boundary layer dynamics**

**Speaker**

Dr Árný Erla Sveinbjörnsdóttir

### **Meteoric water lines with an interval of 27 years, São Paulo, Brazil**

**Speaker**

Veridiana Martins

### **Surface water and groundwater interaction inferred by isoscapes in Sao Paulo state watersheds, Brazil**

**Speaker**

Lucas Vituri Santarosa

### **Spatial and temporal variabilities in stable isotope and hydrochemistry to determine flow paths in the Jonkershoek catchment**

**Speaker**

Ms Retang Anna Lapalemabu Mokua

### **On combining stable and radioactive water isotopes to estimate the transit time distribution in heterogeneous aquifers**

**Speaker**

Dr Julien Albert Farlin

### **Groundwater isoscapes in the southeastern region of Buenos Aires Province - Argentina**

**Speaker**

Dr Daniel Emilio Martinez

### **Carbon dioxide degassing along a high-relief headwater stream inferred from seasonal variability of the gas exchange between water and atmosphere**

**Speaker**

Dr Robert van Geldern

### **The interesting information of oxygen and hydrogen isotopes carried by groundwater: a case from five identical simulated catchments with different land uses from the Shawan Test Site, Southwest China**

**Speaker**

Yundi Hu

### **Relationship between precipitation and groundwater in the Guarani Aquifer System recharge areas revealed by stable isotopes**

**Speaker**

Prof. Didier Gastmans

### **Piston flow vs. preferential flow in loess aquifer: evidence from multiple environmental tracers (H, O, C, N, Sr)**

**Speaker**

Prof. Tianming Huang

### **Hydrochemical and isotopic characterization of the Mampostón-Jaruco Basin as a contribution to the sustainable management of its water resources**

**Speaker**

Mr Alejandro Garcia-Moya