Commission on Mineral and Thermal Waters

Commission Eaux Minérales et Thermales

MINUTES

52nd CMTW meeting

during 53rd IAH Congress, Budapest 14 – 18 September 2026

prepared by:
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CMTW meeting 2026

The 52th Meeting of the Commission on Mineral and Thermal Waters in 2026 took place during the 53rd IAH Congress in Budapest, Hungary.

CMTW activities

In 2026 members of the CMTW took part in the supporting activities in preparation of the IAH Congress and its scientific program.

The second important issue for the CMTW as a whole working group it was final electing and approval of the extended Steering Committee, due to (1) the IAH requirements and (2) the prolonged medical convalescence of the Commission's current Chairman dr Jim LaMoreaux, which prevents him from actively participating in the Commission's meetings (CMTW business meeting activities).

The members of the CMTW took active participation in the supporting activities which includes:

- participation in scientific committee,
- participation in organizing committee,
- preparation of scientific session dedicated for mineral and thermal waters,
- chairing and co-chairing scientific sessions,
- preparation and presentation of research papers and posters in different scientific sessions.

The scientific session No 1.6, titled "*Developments in mineral and thermal waters: from exploration to sustainable use"* was held under the auspices of the CMTW during the Congress.

The session consists of 8 presentations, from which one was canceled due to author absence. Tables below shows the scientific lectures given during the CMTW session and compilation of scientific lectures and posters presented by the CMTW members during all sessions of the Congress.

Scientific lectures presented during CMTW session

Session 1.6
Friday, 18.09.2026
Complete session: 10:30–12:30, Room: Mozart
Chairs: Adam Porowski, István Fórizs, Nina Rman

Time	Presenting author	Presentation title
10:30–10:45	Kłonowski, Maciej R.	Hydrogeology and hydrogeochemistry of selected potentially medicinal waters of the Sudetes (SW Poland, NE Bohemian Massif)
10:45–11:00	Marques, José	CANCELLED: Comparative conceptual modelling of hyposaline natural mineral waters systems in quartzitic settings (Central Portugal)
11:00–11:15	Szabó, Zsóka	Integrated hydrogeochemical and isotopic investigation of the thermal karst system of Budapest, Hungary: implications for groundwater system understanding
11:15–11:30	Deák, József	Verification of the regional groundwater flow system to prove the origin of Minera and Veritas mineral water in Albertirsa (Hungary)
11:30–11:45	Orticoni, Davia	Multi-tracer isotope approach for groundwater–surface water interactions in a Mediterranean complex aquifer exploited for natural mineral water
11:45–12:00	Fórizs, István	Isotope hydrological proof of the special properties of the Hungarian mineral waters
12:00–12:15	Fosselard, Patricia	Original purity for natural mineral waters – An evolving concept
12:15–12:30	Szlukovinyi, Áron	Wood (larch) cased wells in Hungary established in the XIX. Century

Scientific lectures presented by CMTW members during the Congress

Name	Session	Topic	
Kłonowski, Maciej R.	1.6	Hydrogeology and hydrogeochemistry of selected potentially medicinal waters of the Sudetes (SW Poland, NE Bohemian Massif)	New member
Deák, József	1.6	Verification of the regional groundwater flow system to prove the origin of Minera and Veritas mineral water in Albertirsa (Hungary)	
Fórizs, István	1.6	Isotope hydrological proof of the special properties of the Hungarian mineral waters	
Carreira, Paula	1.7	Discriminating seawater intrusion from other salinization sources in the Algarve Sedimentary Basin: insights from environmental isotopes	
Marcin, Daniel	1.7	Conditions of mineral waters formation in Herľany	
Deák, József	1.8	Tracking isotope and nitrate patterns of subsurface pathways in hilly catchments heavily affected by agriculture	
Rman, Nina	2.1	Towards a plan for managing abandoned wells in Slovenia – experiences and surprises	
Rybach, Ladislaus	2.1	How to generate power from deep geothermal resources for the growing electricity demand in the future?	
Maniero, Pietro	4.1	Integrating monitoring network data and machine learning for groundwater level prediction: a case study in the Euganean Geothermal Field, Veneto Region, NE Italy	New member
Di Curzio, Diego	5.3	Transient time series analysis to identify anomalous aquifer recharge in the Shenzhen Megacity, China	New member
Rybach, Ladislaus	Special session for József Tóth	The “Hungarian Hydrogeology Mafia”	

Posters presented by CMTW members during Congress

Name	Session	Toopic
Wachowicz-Pyzik, Anna	Session 2.1	Conventional and unconventional geothermal systems in further development of the geothermal energy sector
Rman, Nina	Session 1.1	Using monthly stable isotope datasets of the Sava River water cycle for investigation of pollutant transport pathways
Rman, Nina	Session 1.6	Structural and hydraulic controls on forced convection in Alpine aquifer systems: insights from two thermal springs in NW Slovenia
Marković Tamara	Session 1.6	Hydrochemical and isotopic characterization of geothermal aquifers in the Pannonian Basin – Croatia
Hałaj Elżbieta	Session 1.6	Sustainable integration of low-temperature geothermal waters and energy with RES and thermal energy storage in Poland's regions
Deák, József	Session 1.6	Use of isotope tools to prove the ice age origin and pristineness of the Minera mineral water in Albertirsa (Hungary)
Maciej R. Kłonowski	Session 4.5	Spatial temperature distribution inferred from borehole logging and OF DTS measurements. Results of OptiSGE project.

Sessions co-charing by CMTW members during Congress

Name	Session	Toopic
Rybach, Ladislaus	Session 2.1	Groundwater-dependent geothermal systems
Porowski, Adam Fórizs, István, Rman, Nina	Session 1.6	Developments in mineral and thermal waters: from exploration to sustainable use

CMTW Business Meeting

Agenda

16 September 2026, 17:15 – 18:15, Lehar Room

1. Welcome of the participants and members:

   Chairman: Jim Lamoreaux (- absent)
   Vice Chairman: Werner Balderer (- absent)
   Secretary: Adam Porowski (- present)

2. CMTW Minutes 2025:

   a) Short info about CMTW meeting in 2025: during the 4th International Multidisciplinary Conference on Mineral and Thermal Waters, Pamukkale University in Denizli, Turkey, November 2 - 6, 2025.

   b) Short info about CMTW meeting in 2025: during the 52nd IAH World Groundwater Congress in Melbourne, Victoria, Australia, September 15 - 19, 2025

3. Discussion / voting for approval extended / new Management Team / Steering Committee: **5 persons**

   Jim Lamoreaux
   Werner Balderer
   Adam Porowski
   Nina Rman
   István Fórizs

4. New members – submissions from participants / members (if any)

5. Publication propositions – special issues:

   a) *Discover Water* – Open Access (APCharges occur)
   b) *Sustainability* – Open Access (APCharges occur),
      Special Issue “Enhancing Sustainable Hydrological and Geochemical Modeling for Intelligent Water Resource Management”
      - still open for submission

6. Plan for CMTW activities for next 2-3 years

7. Miscellaneous
   a) New initiatives to increase mutual collaboration and increase the activity of CMTW

The main issue during the business meeting was (1) approval of the enlargement of the Steering Committee of the CMTW, (2) appointment and approval of the new composition of the Steering Committee as well as (3) approval of entrusting the duties of the CMTW chairing to one of the members of the new Steering Committee.

These formal rearrangements in the CMTW leading structures stem from (i) requirements of the IAH management, (ii) absence of Chairman and Secretary elections for too long period of time, and (iii) unforeseen circumstances connected with the prolonged medical convalescence of the Commission's current Chairman dr Jim LaMoreaux, which prevents him from actively participating in the Commission's meetings and decision making process.

Secretary of the CMTW, dr Adam Porowski, proposed new enlarged Steering Committee composed of 5 persons:

Jim Lamoreaux
Werner Balderer
Adam Porowski
Nina Rman
István Fórizs

The CMTW members present in the meeting approved the proposition of the new Steering Committee (SC) by open voting (the list of present members are compiled in the table below). The approved new Steering Committee proposed the entrusting the duties of the CMTW chairing to dr István Fórizs, and for all other members – duties of Vice Chairs.

Dr István Fórizs – is one of the most experienced hydrogeologists of the CMTW, is one of the most active members of the CMTW and has one of the longest tenures as a member of the Commission.

The CMTW members present in the meeting approved dr István Fórizs as new Chairman of the CMTW with vice chairing functions for all other members of the new Steering Committee.

All members of the Steering Committee will stay in close electronic contact and will take part in the leading of the CMTW working group within the IAH supporting each other in fulfilling necessary formal duties and maintaining active contact with IAH management.

After settling the most current organization issues the Steering Committee invited new members for joining the CMTW. Five colleagues present at the meeting expressed their wish to joint the Commission as a new member:

- Maciej Kłonowski, Poland
- Diego di Curzio, Italy
- Pietro Maniero, Italy
- Pedro Romero, Petroseismic Services, Colombia
- Margarida Antunes, Portugal

All joining new members had the possibility to introduce themselves and their current activities in the field of mineral and thermal waters.

There was a short time to discuss future activities of the CMTW and prospects for organizing next Multidisciplinary Conference on Mineral and Thermal Waters – MinWat. Prof. Paolo Fabri introduced the possibility of organization next MinWat in close collaboration with bottled water industry and first of all with Natural Mineral Waters Europe (NMWE) non-profit bottled water trade association represented by Secretary General Patricia Fosselard, who was present in our meeting and scientific session. Mrs Fosselard accepted such idea and CMTW will stay in touch to prepare the proposition and present for the NMWE.

52th CMTW IAH Meeting

LIST OF PARTICIPANTS

No	Name	Country	e-mail
Members			
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	New members		
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