

**Agenda for the IAPWS Working Group
Thermophysical Properties of Water and Steam (TPWS)
Boulder, United States of America, June 23, 2024**

1. Opening Remarks; Adoption of Agenda [morning, joint with WG IRS and SCSW]
2. Appointment of Clerk of Minutes
3. Minute's Silence for Deceased Members and Colleagues (A. Harvey)
4. Potential International Collaborative Projects
 - 4.1 Proposal for a collaborative project "Guideline on the Thermodynamic Properties of Metastable Water" (F. Caupin, M. Anisimov, J. Hrubý)
5. State of Development of a New Formulation for the Thermodynamic Properties of Ordinary Water (Replacement of IAPWS-95)
 - 5.1 Report of Task Group (A. Harvey, A. Giuliano Albo, F. Caupin, D. Friend, J. Hrubý, Y. Kayukawa, S. Lago, N. Okita, R. Span)
6. Report of Task Group on surface tension of ordinary water (joint with WG IRS and SC SW) (V. Vinš, A. Harvey, O. Hellmuth, V. Holten, J. Hrubý, R. Mareš, F. Caupin)
7. IAPWS Certified Research Needs (ICRNs)
 - 7.1 ICRN 16: Thermophysical Properties of Seawater (R. Pawlowicz)
 - 7.2 ICRN 30: Thermophysical Properties of Supercooled Water (O. Hellmuth)
8. Industrial Requirements and Solutions for Property Calculations (joint with WG IRS and SCSW, N. Okita)
 - 8.1 Categories of Industrial Requirements and sulfuric acid dew points (N. Okita)
 - 8.2 Report of the Task Group "Wet steam properties calculation" (A. Nový, J. Hrubý, R. Span, K. Meier, F. di Mare, S. Senoo, M. Kunick)
9. Proposal for the development of a new industrial formulation for the properties of water and steam (M. Kunick) (joint with WG IRS, PCAS and SCSW) [afternoon]
10. Heavy Water Properties
 - 10.1 Progress on a formulation for the static dielectric constant of heavy water (J. Cox, A. Harvey, and P. Tremaine)
11. Enhancement Factor of Mixtures Containing Steam
 - 11.1 Outcome of the EU project PROMETH2O (A. Giuliano Albo, V. Fericola)
 - 11.2 Report of the Task Group on the Enhancement Factor of Mixtures Containing Steam (K. Meier, R. Hellmann, A. Harvey, V. Fericola)
 - 11.3 IAPWS representative for Consultative Committee for Thermometry / Working Group on humidity (CCT-WG-Hu)
12. Discussion on Future Activities of TPWS
 - 12.1 Review of current TPWS task groups
 - 12.2 Possible future areas of interest to TPWS

e.g.: description of the properties of H₂O and D₂O ice Ih, water electrolysis and hydrogen fuel cells

13. Reports on seawater-related topics

13.1 Discussion on the future of the Subcommittee on Sea Water (A. Giuliano Albo)

14. Report on International Collaborative Projects

15. Membership

16. Election of a new Chair and Vice-Chair

17. Contribution to Press Release

18. Preparation of the Formal Motion to the EC

19. Adjournment

June 19, 2024

K. Meier (Chair), J. Hrubý (Vice-Chair)