

Programme
Solid-State Proton Conductors

14 Sep 2025

08:00 - 09:00 **Registration**

09:00 - 09:20 **Opening ceremony**

09:20 - 11:20 **Session 1 Oxides – Electrolyte I (Chair: Rotraut Merkle)**

9:20 Controlling Electronic Leakage in Proton Conducting Oxide Cells via Electrode Reaction Engineering, H. Matsumoto, Kyushu University, Japan

10:00 Protonics in Multiconstituent Oxides – The Complex Story of Complex Materials, A. Mielewczyk-Gryń, Gdansk University of Technology, Poland

10:30 Materials Discovery through Interpretation: Decoding High Proton Conductivity in Oxides, Y. Yamazaki, Kyushu University, Japan

11:20 - 13:00 **Session 2 Oxides – Electrolyte II (Chair: S. Haile)**

11:20 Unraveling the Phonon-assisted Proton Transport in Ceramics, Q. Chen¹, Shanghai Jiao Tong University, China

11:50 Ceramic Proton Conductors and the Diversity of their Transport Properties, N. Bonanos, Technical University of Denmark, Denmark

12:20 Phonon-assisted Proton Tunneling in $\text{Cs}_3\text{H}(\text{SeO}_4)_2$, H. Matsui, Tohoku University, Japan

13:40 - 14:10 **13:40 Direct Quantification of Protons in Triple-Conducting Perovskites via Laser-Induced Breakdown Spectroscopy, A. K. Opitz, Technische Universität Wien, Austria**

13:40 - 16:00 **Session 3 Oxides – ElectrodeS I (Chair: T. Uda)**

14:10 - 14:30 **14:10 Proton Conduction in $\text{La}_2\text{NiO}_{4+\delta}$ -Based Ruddlesden-Popper Phase Positrode, D. Han, Soochow University, China**

14:30 - 15:00 **14:30 Unlocking Intermediate Temperature H₂O Electrolysis with Rationally Doped Prnico-Based Positrodes, V. Kyriakou, University of Groningen, The Netherlands**

15:00 - 15:20 **15:00 Steam Electrode Kinetics, Structure, and Electrochemistry in (Fe,Pr,Co)-Substituted $\text{BaZr}_{0.9}\text{Y}_{0.1}\text{O}_{3-\delta}$ (BZY) Triple-Conducting Thin Films, A. Popescu, University of Illinois Urbana-Champaign, USA**

15:20 - 16:00 **15.20 Things to Keep in Mind When Investigating PCC Electrode Reactions, K. Amezawa, Tohoku University, Japan**

16:00 - 16:30 **16:00 Triple-Conducting Combinatorial Libraries and Vertically-Aligned Nanocomposites as Platforms for Studying Proton Surface Exchange Kinetics, N.H. Perry, University of Illinois Urbana-Champaign, U**

16:00 - 17:40 **Session 4 Oxides – Electrode II (Chair: Truls Norby)**

16 Sep 2025

09:00 - 12:00 **9:00-12:00 Polymer (I) session**

13:30 - 16:30 **13:30-16:30 Polymer (II) session**

17:00 - 18:30 **17:00-18:30 Poster session (I)**

17 Sep 2025

09:00 - 12:00 **9:00-12:00 Oxide (III) session**

13:00 - 17:00 **13:00-17:00 City Tour and Dinner**

18 Sep 2025

09:00 - 12:00 **9:00-12:00 Polymer (II)/Mixed (I) session**

13:30 - 16:30 **13:30-16:30 Oxide (III) and SSPC Project Overview session**

17:00 - 18:30 **17:00-18:30 Poster session (II)**

19 Sep 2025

09:00 - 12:00 **9:00-12:00 Mixed (II) session & Closing**

13:00 - 14:00 **13:00-14:00 Lab tour (Optional)**