

Young Scientists' Session I

EMAS Thesis Award presentation

- Electron probe microanalysis of carbon containing steels at a high spatial resolution.
Philippe T. Pinard and S. Richter
- Atomic scale study on growth and heteroepitaxy of ZnO monolayer on graphene.
Hyo-Ki Hong, J. Lee, N.Y. Kim, S. Son, J.H. Kim, R. Erni and Z. Lee
- Low EPMA totals of hydrous basaltic glass: effect of sub-surface charging.
Ery C. Hughes, B. Buse and S.L. Kearns
- SEM-EDS analysis of the niello inlays of a late Roman silver augur staff (*lituus*) found in Pannonia province (Hungary).
Viktória Mozgai, B. Topa, T.G. Weiszburg, B. Bajnóczi, I. Főrizs, Zs. Mráv and M. Tóth
- Analytical TEM study of calcium phosphate nanoparticles in an intracellular environment.
André L. Rossi
- Simulations of electron-specimen interactions in electron microscopy using quantum trajectories.
Samantha Rudinsky, A. Sanz and R. Gauvin

Young Scientists' Session II

- Characterisation of niobium microsegregation and eutectic niobium carbide along the process chain in a microalloyed case hardening steel.
Mamta Sharma, S. Richter, U. Prahl and W. Bleck
- High-resolution imaging, EBSD analysis and isotope mapping of experimentally produced micro- and nanocrystalline geological materials.
Liene Spruzeniece, S. Piazzolo, M.R. Kilburn and A. Putnis
- Emergence and progression of abnormal grain growth in minimally strained nickel-200.
Olivia Underwood, J. Madison, J. Michael, B. McKenzie, R. Martens and G. Thompson

- Dose-management strategies for TEM investigation of lithium-based materials for battery applications.
Frédéric Voisard, H. Demers, M. Trudeau, G.P. Demopoulos, R. Gauvin and K. Zaghbi
- Study of atomic structure and electron structure of uranium oxide and nitride.
Rongguang Zeng, Y.W. Zhao, X.D. Meng, T.W. Liu, Y. Hu, B. Bai, K.Z. Liu and H. Tan
- Spider silk observed by femtosecond second harmonic generation (SHG) microscopy.
Yue Zhao, K.T.T. Hien, G. Mizutani and H.N. Rutt