

SAT AUG 11

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| 8.00 am | Registration and Coffee | |
| 9.00 am - 10.00am | Penelope King, Australian National University, Canberra, Australia | Types of gas-solid reactions in nature: theory, experiments and case studies |
| 10.00 am | Morning tea | |
| 10.30am - 11.30pm | Lindsey Yue, Australian National University, Canberra, Australia | High-temperature gas-solid heterogenous reactions in industrial processes |
| 11.30am - 12.30pm | Kono Lemke University of Hong Kong, China | Solute molecular chemistry in aqueous fluids having gas-like densities with applications to volcanic and hydrothermal systems |
| 12.30 pm | Lunch | |
| 12.30 pm - 1.30 pm | Pierre Delmelle Université catholique de Louvain, Belgium | High temperature reactions between gas and ash particles in eruption plumes |
| 1.30 pm - 2.30 pm | Christian Renggli, Muenster, Germany | SO ₂ gas reactions with silicate glasses |
| 2.30 pm | Afternoon tea | |
| 3.00 pm - 4.00 pm | James Kubicki, University of Texas El Paso, TX, USA | Reaction mechanisms and solid-gas phase reactions: Theory and Density Functional Theory simulations |
| 4.00 pm - 5.00 pm | Remote: Dick Henley or Terry Seward, Victoria University, Wellington, NZ | Gas-solid reactions and reactive mass transport in volcanic systems |

SUN AUG 12

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| 8.30 am | Coffee | |
| 9.30 am - 10.30am | Paolo Sossi Inst Physique du Globe du Paris, France | Gas-condensed phase interactions in planetary science: Thermodynamics and applications |
| 10.30 am | Morning tea | |
| 10.30am - 11.30pm | Hiroko Nagahara, Tokyo Institute of Technology, Japan | Kinetics of gas-solid reactions in the Solar System and beyond |
| 11.30 pm - 12.30 pm | Terrence P. Mernagh, Australian National University, Canberra, Australia | Vibrational spectroscopic techniques for analysing the products of gas-solid reactions |
| 12.30 pm | Lunch | |
| 1.30 pm - 3.00 pm | Kim Dalby University of Copenhagen, Denmark | Analytical techniques for probing small-scale layers that preserve information on gas-solid reactions |
| 3.00 pm - 3.30 pm | Andrew Palm, Australian National University, Canberra, Australia | Unravelling the consequences of SO ₂ - basalt reactions for geochemical fractionation and mineral formation |
| 2.30 pm | Afternoon tea | |
| 3.00 pm - 4.30 pm | Invited speakers and summary of the sessions | Various topics |