

## GMPV – Geochemistry, Mineralogy, Petrology & Volcanology (#EGU17GMPV) – Orals

### Monday, 24 April

<b>MO1</b> , 08:30–10:00	<b>GMPV4.8/TS3.7</b> , Volcanic processes: Tectonics, Deformation, Geodesy (co-organized), <b>08:30–12:00, Room K1</b>
	<b>HS8.1.7/ERE5.10/GM8.10/GMPV3.7</b> , Reactive transport, mineral dissolution and precipitation in fractured and porous rock: experiments, models and field observations (co-organized), <b>08:30–12:00, Room 2.15</b>
	<b>NH2.1/AS3.5/GMPV5.6</b> , Atmospheric emissions from volcanoes and their dispersion (co-organized), <b>08:30–12:00, Room L8</b>
	<b>GD3.1/EMRP4.41/GMPV6.6/PS9.3/SM10.12</b> , Dynamics of the mantle and core in the Earth and planetary bodies: from magma oceans to the present day (co-organized), <b>08:30–17:00, Room D1</b>
<b>MO2</b> , 10:30–12:00	<b>GMPV4.8/TS3.7</b> , Volcanic processes: Tectonics, Deformation, Geodesy (co-organized), <b>08:30–12:00, Room K1</b>
	<b>HS8.1.7/ERE5.10/GM8.10/GMPV3.7</b> , Reactive transport, mineral dissolution and precipitation in fractured and porous rock: experiments, models and field observations (co-organized), <b>08:30–12:00, Room 2.15</b>
	<b>GI1.4/GMPV5.4/NH6.12/SM5.6</b> , New frontiers of multiscale monitoring, analysis and modeling of environmental systems (co-organized), <b>10:30–12:00, Room 0.49</b>
	<b>NH2.1/AS3.5/GMPV5.6</b> , Atmospheric emissions from volcanoes and their dispersion (co-organized), <b>08:30–12:00, Room L8</b>
	<b>GD3.1/EMRP4.41/GMPV6.6/PS9.3/SM10.12</b> , Dynamics of the mantle and core in the Earth and planetary bodies: from magma oceans to the present day (co-organized), <b>08:30–17:00, Room D1</b>
<b>MOL</b> , 12:15–13:15	<b>UMI0</b> , Plenary, <b>12:15–13:15, Room E1</b>
<b>MO3</b> , 13:30–15:00	<b>GMPV4.6/AS3.6</b> , Volcanic Gas Emissions (co-organized), <b>13:30–15:00, Room K1</b>
	<b>GD3.1/EMRP4.41/GMPV6.6/PS9.3/SM10.12</b> , Dynamics of the mantle and core in the Earth and planetary bodies: from magma oceans to the present day (co-organized), <b>08:30–17:00, Room D1</b>
<b>MO4</b> , 15:30–17:00	<b>GMPV4.7/NH2.7</b> , Volcano Geology and Intrusion-induced Uplift (co-organized), <b>15:30–17:00, Room K1</b>
	<b>TS3.2/GMPV3.5</b> , Interactions of deformation, metamorphism and fluid flow (co-organized), <b>15:30–17:00, Room G1</b>
	<b>GD3.1/EMRP4.41/GMPV6.6/PS9.3/SM10.12</b> , Dynamics of the mantle and core in the Earth and planetary bodies: from magma oceans to the present day (co-organized), <b>08:30–17:00, Room D1</b>

## Tuesday, 25 April

<b>TU1</b> , 08:30–10:00	<b>GMPV3.4</b> , Progress in Metamorphic Geology: Petrochronology (including GMPV Division Outstanding ECS Award Lecture), <b>08:30–11:45, Room 1.61</b>
	<b>GMPV4.2/NH2.5</b> , Magma ascent, degassing and eruptive dynamics: linking experiments, models and observations (sponsored by European Association of Geochemistry, AGU-VGP and VERTIGO) (co-organized), <b>08:30–12:00, Room 2.20</b>
	<b>SSP2.4/GMPV1.5</b> , Mass Extinctions, Volcanism, Impacts, and Catastrophic Environmental Changes: Observations and Processes (sponsored by IAS and SEPM) (including Arne Richter Award for Outstanding ECSs Lecture by Yadong Sun) (co-organized), <b>08:30–15:00, Room N1</b>
<b>TU2</b> , 10:30–12:00	<b>GMPV3.4</b> , Progress in Metamorphic Geology: Petrochronology (including GMPV Division Outstanding ECS Award Lecture), <b>08:30–11:45, Room 1.61</b>
	<b>GMPV4.2/NH2.5</b> , Magma ascent, degassing and eruptive dynamics: linking experiments, models and observations (sponsored by European Association of Geochemistry, AGU-VGP and VERTIGO) (co-organized), <b>08:30–12:00, Room 2.20</b>
	<b>ML40/GMPV</b> , GMPV Division Outstanding ECS Award Lecture by Pierre Lanari (co-organized), <b>11:45–12:15, Room 1.61</b>
	<b>SSP2.4/GMPV1.5</b> , Mass Extinctions, Volcanism, Impacts, and Catastrophic Environmental Changes: Observations and Processes (sponsored by IAS and SEPM) (including Arne Richter Award for Outstanding ECSs Lecture by Yadong Sun) (co-organized), <b>08:30–15:00, Room N1</b>
<b>TU3</b> , 13:30–15:00	<b>GMPV3.1</b> , Fluid-solid interactions: from mechanism to rate - from grain scale to plate, <b>13:30–15:00, Room L7</b>
	<b>GMPV4.4</b> , Interpreting textures in magmatic systems from storage to surface, <b>13:30–15:00, Room 2.20</b>
	<b>SSP2.4/GMPV1.5</b> , Mass Extinctions, Volcanism, Impacts, and Catastrophic Environmental Changes: Observations and Processes (sponsored by IAS and SEPM) (including Arne Richter Award for Outstanding ECSs Lecture by Yadong Sun) (co-organized), <b>08:30–15:00, Room N1</b>
	<b>NH2.2/GMPV5.5</b> , Volcano Records and Quantification of Volcanic Hazards (including Sergey Soloviev Medal Lecture) (co-organized), <b>13:30–17:00, Room L6</b>
	<b>EMRP1.3/GI3.16/GMPV6.1/SM2.4/TS5.6</b> , Earthquakes: from slow to fast, from the field to the laboratory (incl. Division Outstanding ECS Award Lecture by Marie Violay) (co-organized), <b>13:30–17:00, Room 0.31</b>
<b>TU4</b> , 15:30–17:00	<b>GMPV1.3/EMRP4.32/ERE6.5/SSP1.8/TS3.8</b> , Multi-scale analysis of geological materials: Minerals, Fluids, Cracks, Pores & Permeability (Sponsored by AGU-VGP) (co-organized), <b>15:30–17:00, Room 2.20</b>
	<b>GMPV3.2/TS3.6</b> , Inclusions in minerals: a record of geological processes (co-organized), <b>15:30–17:00, Room L7</b>
	<b>NH2.2/GMPV5.5</b> , Volcano Records and Quantification of Volcanic Hazards (including Sergey Soloviev Medal Lecture) (co-organized), <b>13:30–17:00, Room L6</b>
	<b>EMRP1.3/GI3.16/GMPV6.1/SM2.4/TS5.6</b> , Earthquakes: from slow to fast, from the field to the laboratory (incl. Division Outstanding ECS Award Lecture by Marie Violay) (co-organized), <b>13:30–17:00, Room 0.31</b>
	<b>SM4.6/GD2.6/GMPV6.5/TS9.5</b> , Advances in mapping the structure of cratons, craton margins, and craton boundaries (co-organized), <b>15:30–17:00, Room 1.61</b>
<b>TU6</b> , 19:00–20:00	<b>ML26/GMPV</b> , Robert Wilhelm Bunsen Medal Lecture by D. Graham Pearson (co-organized), <b>19:00–20:00, Room K1</b>

## Wednesday, 26 April

<b>WE1</b> , 08:30–10:00	<b>GMPV5.1/G6.4/GD3.5/GI1.11/NH2.8/SM5.10</b> , Volcano monitoring with instrument networks (co-organized), <b>08:30–17:00, Room D1</b>
	<b>TS7.3/GD5.6/GMPV2.11</b> , Initiation of subduction zones in context of the Wilson cycle. Including the Arne Richter Award lecture by João Duarte. Co-organised with GSA-SGT and AGU-Tectonophysics (co-organized), <b>08:30–10:00, Room D3</b>
<b>WE2</b> , 10:30–12:00	<b>GMPV5.1/G6.4/GD3.5/GI1.11/NH2.8/SM5.10</b> , Volcano monitoring with instrument networks (co-organized), <b>08:30–17:00, Room D1</b>
<b>WEL</b> , 12:15–13:15	<b>DM12/GMPV</b> , Division meeting for Geochemistry, Mineralogy, Petrology & Volcanology (GMPV) (co-organized), <b>12:15–13:15, Room M2</b>
<b>WE3</b> , 13:30–15:00	<b>GMPV5.1/G6.4/GD3.5/GI1.11/NH2.8/SM5.10</b> , Volcano monitoring with instrument networks (co-organized), <b>08:30–17:00, Room D1</b>
	<b>GD5.1/EMRP4.7/GMPV2.10</b> , Subduction dynamics from surface to deep mantle (co-organized), <b>13:30–17:00, Room K1</b>
<b>WE4</b> , 15:30–17:00	<b>GMPV5.1/G6.4/GD3.5/GI1.11/NH2.8/SM5.10</b> , Volcano monitoring with instrument networks (co-organized), <b>08:30–17:00, Room D1</b>
	<b>GD5.1/EMRP4.7/GMPV2.10</b> , Subduction dynamics from surface to deep mantle (co-organized), <b>13:30–17:00, Room K1</b>

## Thursday, 27 April

<b>TH1</b> , 08:30–10:00	<b>GMPV2.3</b> , What do diamonds and their inclusions tell us about processes in the deep Earth?, <b>08:30–10:00, Room M1</b>
<b>TH2</b> , 10:30–12:00	<b>GMPV2.7/BG9.63/GD5.10</b> , Reactive Geological Systems from the Mantle to the Abyssal sub-seafloor (co-organized), <b>10:30–12:00, Room M1</b>
<b>TH3</b> , 13:30–15:00	<b>GMPV2.1</b> , Geochemical perspectives on terrestrial element cycles through space and time, <b>13:30–15:00, Room M1</b>
	<b>GMPV2.8/GD2.7</b> , Evolution of the lithospheric mantle: a petrological and geochemical perspective from the mantle xenoliths and orogenic peridotites (co-organized), <b>13:30–17:00, Room 1.61</b>
	<b>IE4.2/NH9.11/GI1.5/GMPV5.7/SM5.11/TS5.8</b> , The GEO Geohazards Supersite initiative: improving science uptake in Disaster Risk Reduction (co-organized), <b>13:30–15:00, Room L2</b>
	<b>GD2.1/GMPV6.2/SM10.4</b> , Geodynamics of continental crust and upper mantle, and the nature of mantle discontinuities (including Augustus Love Medal Lecture) (co-organized), <b>13:30–17:00, Room K1</b>
	<b>GM3.2/GI2.12/GMPV6.4/HS11.13/NH8.9/SSS12.24</b> , High Resolution Topography in the Geosciences: Methods and Applications (co-organized), <b>13:30–17:00, Room L3</b>
<b>TH4</b> , 15:30–17:00	<b>GMPV2.8/GD2.7</b> , Evolution of the lithospheric mantle: a petrological and geochemical perspective from the mantle xenoliths and orogenic peridotites (co-organized), <b>13:30–17:00, Room 1.61</b>
	<b>GD2.1/GMPV6.2/SM10.4</b> , Geodynamics of continental crust and upper mantle, and the nature of mantle discontinuities (including Augustus Love Medal Lecture) (co-organized), <b>13:30–17:00, Room K1</b>
	<b>GM3.2/GI2.12/GMPV6.4/HS11.13/NH8.9/SSS12.24</b> , High Resolution Topography in the Geosciences: Methods and Applications (co-organized), <b>13:30–17:00, Room L3</b>

## Friday, 28 April

<b>FR1</b> , 08:30–10:00	<b>GMPV2.4/GD7.7</b> , Geochemical and geochronological records of petrogenesis and deformation (sponsored by European Association of Geochemistry) (co-organized), <b>08:30–12:00, Room D1</b>
<b>FR2</b> , 10:30–12:00	<p><b>GMPV2.4/GD7.7</b>, Geochemical and geochronological records of petrogenesis and deformation (sponsored by European Association of Geochemistry) (co-organized), <b>08:30–12:00, Room D1</b></p> <p><b>GMPV4.1/SM8.3/TS3.9</b>, Storage, activation and transport processes in magmatic systems - Sponsored by AGU-VGP (with AGP VGP Kuno lecture) (co-organized), <b>10:30–17:00, Room E1</b></p>
<b>FR3</b> , 13:30–15:00	<p><b>GMPV1.4/BG9.68/SSP3.15</b>, From hydrothermal systems to mud volcanoes: structure, evolution and monitoring of active and fossile piercements (co-organized), <b>13:30–17:00, Room D1</b></p> <p><b>GMPV4.1/SM8.3/TS3.9</b>, Storage, activation and transport processes in magmatic systems - Sponsored by AGU-VGP (with AGP VGP Kuno lecture) (co-organized), <b>10:30–17:00, Room E1</b></p> <p><b>GM4.1/BG9.35/GMPV2.12/SSS2.34</b>, Coupling chemical weathering and physical erosion: Insights from geomorphic and geochemical studies (co-organized), <b>13:30–15:00, Room L3</b></p>
<b>FR4</b> , 15:30–17:00	<p><b>GMPV1.4/BG9.68/SSP3.15</b>, From hydrothermal systems to mud volcanoes: structure, evolution and monitoring of active and fossile piercements (co-organized), <b>13:30–17:00, Room D1</b></p> <p><b>GMPV4.1/SM8.3/TS3.9</b>, Storage, activation and transport processes in magmatic systems - Sponsored by AGU-VGP (with AGP VGP Kuno lecture) (co-organized), <b>10:30–17:00, Room E1</b></p>

## GMPV – Geochemistry, Mineralogy, Petrology & Volcanology (#EGU17GMPV) – PICOs

**Monday, 24 April**

<b>MO3</b> , 13:30–15:00	<b>GD2.5/GMPV2.9</b> , Geochemical and geodynamic perspectives on the origin and evolution of deep-seated mantle melts and their interaction with the continental lithosphere (co-organized), <b>PICO spot 5a</b>
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## GMPV – Geochemistry, Mineralogy, Petrology & Volcanology (#EGU17GMPV) – Posters

### Monday, 24 April

<b>MO5</b> , 17:30–19:00	<b>GMPV3.4</b> , Progress in Metamorphic Geology: Petrochronology (incl. GMPV Div. Outstanding ECS Award Lecture), <b>Hall X2, X2.358–X2.388</b>
	<b>GMPV4.6/AS3.6</b> , Volcanic Gas Emissions (co-organized), <b>Hall X2, X2.389–X2.418</b>
	<b>GMPV4.7/NH2.7</b> , Volcano Geology and Intrusion-induced Uplift (co-organized), <b>Hall X2, X2.419–X2.437</b>
	<b>GMPV4.8/TS3.7</b> , Volcanic processes: Tectonics, Deformation, Geodesy (co-organized), <b>Hall X2, X2.438–X2.465</b>
	<b>TS3.2/GMPV3.5</b> , Interactions of deformation, metamorphism and fluid flow (co-organized), <b>Hall X2, X2.213–X2.235</b>
	<b>HS8.1.7/ERE5.10/GM8.10/GMPV3.7</b> , Reactive transport, mineral dissolution and precipitation in fractured and porous rock: experiments, models and field observations (co-organized), <b>Hall A, A.376–A.394</b>
	<b>GI1.4/GMPV5.4/NH6.12/SM5.6</b> , New frontiers of multiscale monitoring, analysis and modeling of environmental systems (co-organized), <b>Hall X4, X4.132–X4.148</b>
	<b>NH2.1/AS3.5/GMPV5.6</b> , Atmospheric emissions from volcanoes and their dispersion (co-organized), <b>Hall X4, X4.309–X4.325</b>
	<b>GD3.1/EMRP4.41/GMPV6.6/PS9.3/SM10.12</b> , Dynamics of the mantle and core in the Earth and planetary bodies: from magma oceans to the present day (co-organized), <b>Hall X2, X2.277–X2.297</b>

### Tuesday, 25 April

<b>TU5</b> , 17:30–19:00	<b>GMPV1.3/EMRP4.32/ERE6.5/SSP1.8/TS3.8</b> , Multi-scale analysis of geological materials: Minerals, Fluids, Cracks, Pores & Permeability (Sponsored by AGU-VGP) (co-organized), <b>Hall X2, X2.344–X2.369</b>
	<b>GMPV3.1</b> , Fluid-solid interactions: from mechanism to rate - from grain scale to plate, <b>Hall X2, X2.370–X2.393</b>
	<b>GMPV3.2/TS3.6</b> , Inclusions in minerals: a record of geological processes (co-organized), <b>Hall X2, X2.394–X2.408</b>
	<b>GMPV4.2/NH2.5</b> , Magma ascent, degassing and eruptive dynamics: linking experiments, models and observations (sponsored by European Association of Geochemistry, AGU-VGP and VERTIGO) (co-organized), <b>Hall X2, X2.409–X2.435</b>
	<b>GMPV4.4</b> , Interpreting textures in magmatic systems from storage to surface, <b>Hall X2, X2.436–X2.449</b>
	<b>SSP2.4/GMPV1.5</b> , Mass Extinctions, Volcanism, Impacts, and Catastrophic Environmental Changes: Observations and Processes (sponsored by IAS and SEPM) (including Arne Richter Award for Outstanding ECSs Lecture by Yadong Sun) (co-organized), <b>Hall X1, X1.334–X1.357</b>
	<b>NH2.2/GMPV5.5</b> , Volcano Records and Quantification of Volcanic Hazards (including Sergey Soloviev Medal Lecture) (co-organized), <b>Hall X3, X3.119–X3.134</b>
	<b>EMRP1.3/GI3.16/GMPV6.1/SM2.4/TS5.6</b> , Earthquakes: from slow to fast, from the field to the laboratory (incl. Division Outstanding ECS Award Lecture by Marie Violay) (co-organized), <b>Hall X2, X2.90–X2.112</b>
	<b>SM4.6/GD2.6/GMPV6.5/TS9.5</b> , Advances in mapping the structure of cratons, craton margins, and craton boundaries (co-organized), <b>Hall X3, X3.58–X3.71</b>

## Wednesday, 26 April

WE5, 17:30–19:00	<b>GMPV1.1</b> , Open Session on Geochemistry, Mineralogy, Petrology and Volcanology (Posters Only), <b>Hall X2, X2.404–X2.440</b>
	<b>GMPV5.1/G6.4/GD3.5/GI1.11/NH2.8/SM5.10</b> , Volcano monitoring with instrument networks (co-organized), <b>Hall X2, X2.441–X2.480</b>
	<b>GD5.1/EMRP4.7/GMPV2.10</b> , Subduction dynamics from surface to deep mantle (co-organized), <b>Hall X2, X2.362–X2.381</b>
	<b>TS7.3/GD5.6/GMPV2.11</b> , Initiation of subduction zones in context of the Wilson cycle. Including the Arne Richter Award lecture by João Duarte. Co-organised with GSA-SGT and AGU-Tectonophysics (co-organized), <b>Hall X2, X2.317–X2.327</b>
	<b>GM3.2/GI2.12/GMPV6.4/HS11.13/NH8.9/SSS12.24</b> , High Resolution Topography in the Geosciences: Methods and Applications (co-organized), <b>Hall X2, X2.95–X2.122</b>

## Thursday, 27 April

TH5, 17:30–19:00	<b>GMPV2.1</b> , Geochemical perspectives on terrestrial element cycles through space and time, <b>Hall X2, X2.392–X2.399</b>
	<b>GMPV2.3</b> , What do diamonds and their inclusions tell us about processes in the deep Earth?, <b>Hall X2, X2.400–X2.409</b>
	<b>GMPV2.7/BG9.63/GD5.10</b> , Reactive Geological Systems from the Mantle to the Abyssal sub-seafloor (co-organized), <b>Hall X2, X2.410–X2.424</b>
	<b>GMPV2.8/GD2.7</b> , Evolution of the lithospheric mantle: a petrological and geochemical perspective from the mantle xenoliths and orogenic peridotites (co-organized), <b>Hall X2, X2.425–X2.444</b>
	<b>GMPV5.2/NH2.4/NP10.10</b> , Hazard monitoring during effusive eruption: data, modelling and uncertainties (co-organized), <b>Hall X2, X2.445–X2.458</b>
	<b>IE4.2/NH9.11/GI1.5/GMPV5.7/SM5.11/TS5.8</b> , The GEO Geohazards Supersite initiative: improving science uptake in Disaster Risk Reduction (co-organized), <b>Hall X3, X3.1–X3.19</b>
	<b>GD2.1/GMPV6.2/SM10.4</b> , Geodynamics of continental crust and upper mantle, and the nature of mantle discontinuities (including Augustus Love Medal Lecture) (co-organized), <b>Hall X2, X2.346–X2.358</b>

## Friday, 28 April

FR5, 17:30–19:00	<b>GMPV1.4/BG9.68/SSP3.15</b> , From hydrothermal systems to mud volcanoes: structure, evolution and monitoring of active and fossile piercements (co-organized), <b>Hall X2, X2.341–X2.365</b>
	<b>GMPV2.4/GD7.7</b> , Geochemical and geochronological records of petrogenesis and deformation (sponsored by European Association of Geochemistry) (co-organized), <b>Hall X2, X2.366–X2.408</b>
	<b>GMPV4.1/SM8.3/TS3.9</b> , Storage, activation and transport processes in magmatic systems - Sponsored by AGU-VGP (with AGP VGP Kuno lecture) (co-organized), <b>Hall X2, X2.409–X2.448</b>
	<b>GM4.1/BG9.35/GMPV2.12/SSS2.34</b> , Coupling chemical weathering and physical erosion: Insights from geomorphic and geochemical studies (co-organized), <b>Hall X2, X2.55–X2.70</b>