

Conference

Feb. 2, 2015

Morning Sessions

8:45 - 9:15 Opening ceremony

HP- and UHP-rocks: Keys to understanding the origin of the Caribbean region

Chair: Hans-Peter Schertl

- 09:15 – 9:45 J. Pindell (invited talk)
From Harry Hess to Today: Caribbean Serpentinites and HPLT Metamorphic Belts in the context of Caribbean Tectonic Evolution
- 09:45 – 10:00 G. Draper
Geological Evolution of Hispaniola
- 10:00 – 10:15 R. Abbott, G. Draper
UHP rocks in the Cuaba Unit of the Rio San Juan Complex: A review
- 10:15 – 10:30 H.P. Schertl, W. Maresch, A. Hertwig
High-pressure metamorphic rocks in serpentinite-hosted mélanges of the Dominican Republic and the role of jadeitites
- 10:30 – 10:45 A. Hertwig, W.C. McClelland, K. Kitajima, H.-P. Schertl, W. Maresch, J.W. Valley
A comprehensive ion microprobe study on zircon from jadeitites and related rocks from the Rio San Juan Complex, Dominican Republic

10:45 – 11:15 Coffeebreak

- 11:15 – 11:30 A. García-Casco, Y. Rojas-Agramonte, I. Blanco-Quintero, C. Lázaro, C., J. Cárdenas-Párraga, L. Butjosa, J. Proenza
A review of serpentinite mélanges of Cuba. Correlations along the NE leading edge of the Caribbean plate and geodynamic implications
- 11:30 – 11:45 L. Butjosa, A. García-Casco, J.A. Proenza
Contrasted affinities of peridotites and serpentinites from Villa Clara subduction Melange (Central Cuba)

HP- and UHP-terrane: P-T-t paths: geochronological, rheological and geochemical characteristics

Chair: Simon Cuthbert

- 11:45 – 12:00 K.E. Flores, C. Martin, G. Bonnet, S.R. Hemming, Y. Cai, G.E. Harlow, H.K. Brueckner
Metamorphic evolution of high-pressure–low-temperature rocks from the northern section of the Guatemala Suture Zone: *P**T* paths and tectonic implications
- 12:00 – 12:15 F. Rolfo, C. Groppo, H.K. Sachan, S.K. Rai, S.K.
Lawsonite-blueschist from the western Himalaya (Ladakh, NW India): petrologic witness of cold subduction processes
- 12:15 – 12:30 V.S. Shatsky, V.G. Malkovets, E.A. Belousova, A.L. Ragozin, S.Yu. Skuzovatov
Evidence of Neoproterozoic continental subduction in Central Asian Orogenic Belt

12:30 – 14:30 Lunchbreak

Afternoon Sessions

HP- and UHP-terrane: P-T-t paths: geochronological, rheological and geochemical characteristics

Chair: Simon Cuthbert

14:30 – 14:45 A. Pilitsyna, A. Tretyakov
The details of regressive metamorphism history of eclogites within Anrakhai complex (Southern Kazakhstan) and some tectonic implications

14:45 – 15:00 J.L. Li, R. Klemd, J. Gao, T. John, T.
Multiple subduction-exhumation processes in the subduction channel: Evidence from P–T evolution of an oceanic eclogite with polymetamorphism and multistage mineral growth

Chair: Herman van Roermund

15:00 – 15:15 C. Diwu, Y. Sun, Y. Zhao, B. Liu, S. Lai
Geochronological, geochemical, and Nd–Hf isotopic studies of the Qinling Complex, central China: Implications for the evolutionary history of the North Qinling Orogenic Belt

15:15 – 15:30 T. Hirajima, E. Sato, Y. Fujimoto, K. Kamimura
Lawsonite-blueschist in the Hakoishi sub-unit, Kurosegawa belt, Kyushu, Japan, as a remnant of late Paleozoic Mariana type subduction, part 1: Geology and Tectonics

15:30 – 16:00 Coffeebreak

Chair: Herman van Roermund

16:00 – 16:15 I. Klonowska, M. Janák, J. Majka, N. Froitzheim, K. Kościńska
New discoveries of the UHP rocks in the Seve Nappe Complex (Swedish Caledonides) and their under-pressure-driven exhumation

16:15 – 16:30 J. Majka, Å. Rosén, M. Janák, N. Froitzheim, I. Klonowska, M. Manecki, V. Sasinková, K. Yoshida
Underpressure-driven exhumation of a diamond-bearing nappe: an example from the Seve Nappe Complex of the Scandinavian Caledonides

16:30 – 16:45 S.M. Gordon, D.L. Whitney, C. Teyssier, H. Fossen, J. DesOrmeau
Pressure–temperature–time–deformation history of the Western Gneiss Region, north and south of the Møre-Trøndelag shear zone: implications from U-Pb and trace-element zircon results

16:45 – 18:00 Poster Session I

Feb. 3, 2015

Morning Sessions

HP- and UHP-terrane: P-T-t paths; geochronological, rheological and geochemical characteristics

Chair: Georg Hoinkes

- 09:00 - 9:15 A. Pourteau, E.E. Scherer, A. Schmidt, R. Bast
Internal P–T–t structure of subduction complexes — Insights from Lu–Hf geochronology on garnet and lawsonite (Halilbağ, Central Anatolia)
- 09:15 – 9:30 G. Godard, D.C. Smith
Île Dumet (Brittany, France) and its glaucophane eclogite: the little sister of Île de Groix
- 09:30 – 9:45 S.W. Faryad, M. Fišera
Granulite facies overprint in HP-UHPM rocks in the Moldanubian Zone (Bohemian Massif); was it a continuous process or separate metamorphic event?
- 09:45 - 10:00 P. Štípská, B.R. Hacker, R. Powell, R. Holder, A.R.C. Kylander-Clark
Linking zircon ages to P–T paths through textural position and REE patterns: The eclogite-mafic granulite to intermediate granulite transition from the Blanský les, Bohemian Massif
- 10:00 – 10:15 S.J. Cuthbert
Densification of subducted felsic crust: Omphacite-bearing orthogneisses in the Western Gneiss Complex, Sunnfjord, Norway

10:15 – 10:45 Coffebreak

HP- and UHP-fluids and melts and their interaction with rocks

Chair: Takao Hirajima

- 10:45 – 11:00 Y.-F. Zheng
Composition of deep continental subduction-zone fluids: the message from magmatic leucosomes and multiphase solid inclusions in UHP metamorphic rocks
- 11:00 – 11:15 P. Hasalová, P. Štípská, R. Weinberg, P. Závada, K. Schulmann, M. Racek
High pressure water-fluxed melting of felsic orthogneisses: the Eger complex, the Bohemian Massif
- 11:15 – 11:30 A.V. Korsakov, X.Y. Gao, A.O. Mikhno,
Polyphase inclusions in kyanite from Ky-bearing Kumdy-Kol eclogite and HP veins: evidence for partial HP-UHP melting
- 11:30 – 11:45 A.O. Mikhno, A.V. Korsakov
Evidence for existence of UHP sulfide melt in calc-silicate rocks from the Kokchetav massif (Northern Kazakhstan)
- 11:45 – 12:00 O.V. Shchepetova, A.V. Korsakov
Secondary fluid inclusions study the diamond-grade kyanite gneisses, Kokchetav massif: Evolution of fluid composition.

12:00 – 14:00 Lunchbreak

Afternoon Sessions

HP- and UHP-fluids and melts and their interaction with rocks

Chair: Wali Faryad

- 14:00 – 14:15 A. Vitale Brovarone, O. Beyssac
Organic carbon fluxes in forearc subducting slabs
- 14:15 – 14:30 T. Kawamoto
Role of saline fluids in sub-arc mantle and subducting slab
- 14:30 – 14:45 J. Liu, N. Cheng, G. Yijie, S. Guo, Y. Chen
Diamond-bearing nano-granitic inclusions in zircons from stromatic metatexite migmatites from the Sulu UHPM belt
- 14:45 – 15:00 Y. Chen, Su, B., S. Guo, Q.L. Li
Linking halogen (F, Cl) and HFSE mobilization during deep crust-mantle interaction: Evidence from Ti-clinohumite-bearing veins in the Dabie orogenic peridotite

15:00 – 15:30 Coffeebreak

Chair. Yong-Fei Zheng

- 15:30 – 15:45 S.G. Song, M.J. Wang, Y.L. Niu, L. Su
Long-lived decompression melting of UHPM rocks during continental subduction and exhumation in the N. Qadim UHP belt
- 15:45 – 16:00 D.A. Zedgenizov, H. Kagi, V.S. Shatsky
Deeply subducted crustal environments of sublithospheric diamonds from Sao-Luis (Brasil)
- 16:00 – 16:15 R. Halama, M. Konrad-Schmolke
Fluid infiltration in an interlayered blueschist-greenschist sequence (Coastal Cordillera, Chile)
- 16:15 – 16:30 H.-J. Massonne, T. Fockenberg
Melting of eclogite at ultrahigh pressure (UHP) conditions: an experimental study
- 16:30 – 18:30 Poster Session II
- (17:30 – 19:00 IECCC Business Meeting)

Feb. 4, 2015 Syn-Conference Field Trip

Feb. 5, 2015

Morning Sessions

Recognition and interpretation of nano- to micro-scale fabrics in HP-UHP minerals

Chair: William C. McClelland

- 09:00 – 9:15 H.U. Rehman, D. Mainprice
EBSD-measured crystal preferred orientations of the Himalayan UHP eclogites
- 09:15 – 9:30 J.-J. Yang, M.-X. Huang, H.-R. Zhang, C. Yu
Coseismic UHP metamorphism recorded by eclogite breccias at Yangkou in the Chinese Su-Lu UHP metamorphic belt
- 09:30 – 9:45 M.L. Frezzotti, R. Palmeri, S. Ferrando, R. Compagnoni, G. Godard
 α -quartz in UHP rocks: irrelevant or crucial?
- 09:45 – 10:00 J. Kotková, R. Wirth, P. Jakubová
Internally flawless microdiamonds: FIB TEM study

10:00 – 10:30 Coffeebreak

The origin of subduction-related ophiolites, chromitites, peridotites, and pyroxenites

Chair: Chris Mattinson

- 10:30 – 10:45 R.Y. Zhang, J.S. Yang, Y. Ilzuka, B.-M. Jahn
New insight into the Earth's Transition Zone: In situ discovery of moissanite, native elements and metal alloys in diamond-bearing chromitites from the Luobusa ophiolites, Tibet
- 10:45 – 11:00 R.-X. Chen, Y.-F. Zheng, H.-Y. Li, L. Zhang
Contrasting crust-mantle interaction in the continental subduction channel: evidence from orogenic peridotite/pyroxenite in the North Qaidam orogen, northern Tibet
- 11:00 – 11:15 M. Philippon, L. Tual, P. Pitra, J.-P. Brun, F. Gueydan
Meta-ophiolite emplacement triggered by continental subduction, Syros Island, Cyclades (Greece)
- 11:15 – 11:30 A.I. Okay
Jadeite and jadeites from Turkey

Large-scale processes: crustal tectonics, mantle dynamics, and their modeling

Chair: Daniele Castelli

- 11:30 – 11:45 W.C. McClelland, J.A. Gilotti, J.A.
Comparing the Caledonian and Himalayan Collisional Orogens
- 11:45 – 12:00 A.W. Willner, J. Glodny, H.-J. Massonne, C. van Staal, A. Zagorevski
P-T-t evolution of high pressure rocks during an Ordovician arc-continent collision at the margin of Laurentia in Western Newfoundland (Canada)

12:00 – 14:00 Lunchbreak

Afternoon Sessions

- 14:00 – 14:15 M. Konrad-Schmolke, R. Halama, V. Manea
Slab mantle dehydration in Kamchatka – does the water flux directly influence the dynamics of subduction zones?
- 14:15 – 14:30 S.L. Baldwin, P.G. Fitzgerald, L.E. Webb, M.G. Malusà
The (U)HP terrane of eastern Papua New Guinea: a modern analogue for (U)HP terranes globally
- 14:30 – 14:45 P.G. Fitzgerald, S.L. Baldwin, M.B. Bermúdez, L.E. Webb, T.A. Little, S.R. Miller, M.G. Malusà, D. Seward, D.
Exhumation of the Papuan New Guinea (U)HP terrane: Constraints from low temperature thermochronology
-
- 14:45 – 16:00 Coffeebreak with Poster Session III
-
- 16:00 – 16:30 Information about IEC future activities; Closing Ceremony

Poster Sessions

HP- and UHP-rocks: Keys to understanding the origin of the Caribbean region

- (1) A.P. Willner, W.V. Maresch, H.-J. Massonne, G. Willner
Metamorphic conditions of blueschists in the Mt. Hibernia Schists, Jamaica
- (2) K.-P. Stanek, W.V. Maresch
Age of peak metamorphism of eclogites from the Escambray Massif, Cuba
- (3) R. Maldonado, F. Ortega-Gutiérrez, D. Hernández-Uribe
First report of garnet whiteschists in the Central America-Caribbean region (Chuacús Metamorphic Complex, Central Guatemala)

HP- and UHP-terrane: P-T-t paths; geochronological, rheological and geochemical characteristics

- (4) G. Hoinkes, K. Krenn, M. Heinisch, P. Micheuz, W. Kurz
High Pressure Metamorphism and Exhumation of Cretaceous eclogites within the Austroalpine nappes, Eastern Alps
- (5) S.W. Faryad, G. Hoinkes, R. Jedlicka, C. Hauzenberger, V. Kachlík S. Jiří
Granulite facies equilibration of HP-UHPM rocks in the Moldanubian Zone; evidence for separate HT-UHT metamorphic event
- (6) P. Štípská, R. Powell, M. Ráček, O. Lexa
Intermediate granulite produced by transformation of eclogite at a felsic granulite contact, in Blanský les, Bohemian Massif
- (7) H.-J. Massonne
A Tertiary high-pressure (HP) interplay of an andalusite-bearing micaschist from the southern Pirin Mts., Pirin-Pangaion unit, SW Bulgaria
- (8) M. Vrabec, M. Janák, P. Uher, E. Krogh Ravna, K. Kullerud
Chromium-rich kyanite, magnesiostauroilite and corundum in ultrahigh-pressure eclogites from Pohorje Mountain (Slovenia, Eastern Alps) and Tromsø Nappe (Norway, Northern Scandinavian Caledonides)
- (9) W. Cao, J.A. Gilotti, H.-J. Massonne, C.T. Jr. Foster
Variation of metamorphic pressure-temperature conditions in the North-East Greenland eclogite province determined from isochemical phase equilibrium diagrams
- (10) K. Košmiřská, J. Majka, S. Mazur, M. Manecki, H. Lorenz
New insights into the early Caledonian subduction in the High Arctic
- (11) J.L. Li, R. Klemd, J. Gao
A common HP metamorphic evolution of interlayered eclogites and metasediments from the 'UHP unit' of the Tianshan metamorphic belt in China
- (12) D.L. Chen, Y.F. Ren, A.C. Hauzenberger, G. Hoinkes, X.K. Gong
Lawsonite-bearing eclogite from Yuka terrane, the North Qaidam, NW China

- (13) L. Liu, X. Liao, Y. Wang, C. Zhang, D.L. Chen
Early Paleozoic Tectonic Evolution of the North Qinling Orogen, Central China : Constraints from HP/UHP metamorphism
- (14) X.-P. Li, H.-P. Schertl, F.-M. Kong, H. Xu, H.
Eclogite from the Qianliyan Island/Yellow Sea linking the high pressure units of Dabie-Sulu and the Korean peninsula
- (15) E. Sato, T. Hirajima, Y. Fujimoto, K. Kamimura
Lawsonite-blueschist in the Hakoishi sub-unit, Kurosegawa belt, Kyushu, Japan, as a remnant of late Paleozoic Mariana type subduction, part 2: Petrology and Mineralogy.
- (16) J.W. DesOrmeau, S.M. Gordon, T.A. Little, S.A. Bowring, J. Vry
Timescales of (U)HP metamorphism and melt crystallization: zircon U-Pb and trace-element results from the D'Entrecasteaux Islands, Papua New Guinea
- (17) T.A. Alifirova, L.N. Pokhilenko, A.V. Korsakov, N.P. Pokhilenko
Interrelation of metasomatic and exsolution processes in cratonic lithosphere under Zagadochnaya kimberlite pipe: The study of a grospydite xenolith
- (18) A. Pilitsyna, A. Tretyakov
HP melanocratic rocks of the Anrakhai complex (Southern Kazakhstan): the general features of chemical and mineral composition
- (19) D. Hernández-Uribe, F. Gutiérrez-Aguilar, F. Pérez-López, R. Maldonado, A. Victoria-Morales
Petrologic characterization of the blueschists and eclogites of the northern part of Acatlan Complex, Mexico: New thermobarometric data and their implication for the metamorphic evolution of southern Mexico
- (20) T. Hyppolito, C. Juliani, A. García-Casco, A. Bustamante
Relictic eclogite facies metamorphism in amphibolites of the Chilean Patagonia (Diego de Almagro Island): First report and implications for the dynamics of the Early Cretaceous subduction zone at the Pacific margin of South America
- (21) M. Konrad-Schmolke, C. Witte, R. Dohmen, P.J. O'Brien, L. Erpel, R. Halama, A. Schmidt
Good news from the garnet front – trace element zoning patterns reflect reaction paths rather than kinetic effects

HP- and UHP-fluids and melts and their interaction with rocks

- (22) S. Ferrando, M.L. Frezzotti, C. Groppo, D. Castelli, A. Proyer
Following dolomite fate from HP to UHP conditions: the impure Cal-Dol marbles from Dora-Maira Massif (western Alps)
- (23) A. Vitale Brovarone
Omphacitites and Jadeitites from Alpine Corsica: two different types of jades
- (24) K. Yoshida, T. Hirajima, A. Miyake, A. Tsuchiyama, S. Ohi, T. Nakano, K. Uesugi
Three-dimensional morphological observation of the small fluid inclusion using FIB-XCT technique.

- (25) Y. Mori, M. Shigeno, T. Kawamoto, T. Nishiyama
Saline fluid inclusions in jadeitites from southwest Japan: Records of slab-derived fluid composition in subduction-zone channels
- (26) W. Su, X. Liu, X.M. Ge
Featured volatiles of the HP veins and their host rocks from the West Tianshan, China
- (27) L. Zhang, R.-X. Chen, Y.-F. Zheng
Synexhumation anatexis of ultrahigh-pressure metamorphic rocks: Evidence from migmatite and felsic vein in the North Qaidam orogen, northern Tibet
- (28) S. Guo, Y. Chen, B. Su, J.B. Liu
Formation of multiple HP veins in UHP eclogites (Hualiangting, Dabie, China): fluid source, element transfer, and closed-system metamorphic veining
- (29) P. Liu, J. Zhang, Y. Wu, Z. Jin
Polyphase solid inclusions in garnet: indicator of melt infiltration of earlier mineral inclusions
- (30) W.-C. Li, R.-X. Chen, Y.-F. Zheng
Multiple anatexis records of ultrahigh-pressure metamorphic rocks during exhumation of deeply subducted continental crust in the Sulu orogen
- (31) Y.-X. Chen, K. Zhou, Y.-F. Zheng
Garnet geochemistry records the action of metamorphic fluids in ultrahigh-pressure dioritic gneiss from the Sulu orogeny
- (32) H.-Y. Li, R.-X. Chen, Y.-F. Zheng
Crust-mantle interaction in continental subduction channel: Evidence from extremely ^{18}O -depleted zircon from orogenic peridotite in the Sulu orogen
- (33) X.-Y. Gao, Y.-F. Zheng, Y.-X. Chen
Composite silicate and carbonate multiphase solid inclusions in metamorphic garnet from ultrahigh-pressure eclogite in the Dabie orogen
- (34) C.G. Mattinson, J. Meyer, M.E. Regel, J.X. Zhang, J.X.
Modeling eclogite mineral assemblages and fluid release history, North Qaidam UHP terrane, western China

Recognition and interpretation of nano- to micro-scale fabrics in HP-UHP minerals

- (35) S. Jung, H. Jung, H. Austrheim
Deformation microstructures of olivine in the presence of fluid and implications for seismic anisotropy and shear localization
- (36) D. Kim, H. Jung
Lattice preferred orientation of olivine and chlorite in chlorite peridotites from Almklovdalen in the Western Gneiss Region, southwest Norway, and implications for seismic anisotropy
- (37) Y. Park, H. Jung
Petrofabrics of olivine and enstatite in mantle xenoliths in Shanwang, eastern China, near the convergent plate margin and implications for seismic anisotropy

Open Session

- (38) R.N., Jr. Abbott
Eclogite in modal space: A brave but not so new frontier
- (39) A.C.S. Knaf, J.M. Koornneef, C.L. Hofman, G.R. Davies
A multi-isotopic and trace elemental approach to provenance Caribbean greenstone artefacts in an essentially non-destructive way: Implications for pre- and post-colonial exchange and mobility networks
- (40) H.-P. Schertl, A. Hertwig, S. Knippenberg, W.V. Maresch, L. Speich, A. Lopez, C. Hofman, R. Rodríguez Ramos
Jade artefacts from the Playa Grande site, Dominican Republic: mineralogical characterization and archeological implications
- (41) D. Castelli, S. Ferrando, C. Groppo, D. Elia, V. Meirano, L. Facchinetti
May ancient quern-stones (III c. AD) carved from Coe-Ctd-Grt-talcschists help in refining tectono-metamorphic Units of Southern Dora-Maira Massif?