

SESSIONS PROGRAMME

Monday 18 March 2019		
08:30	Late Registrations	
09:10	Welcome Ceremony	
Session 1. Tracking lake water chemistry: the future of direct sampling of volcanic lakes		Session Chairs: Maria Martínez-Cruz, Celine Mandon & Takeshi Ohba
09:30	Keynote talk: Active magmatic-hydrothermal system beneath Yugama crater lake at Kusatsu-Shirane volcano, Japan: Temporal variations in subaqueous fumarolic activities	Terada A. and Kuwahara T.
10:00	The major chemical composition of lake water in Yugama crater at Kusatsu-Shirane volcano (Japan) and its changes in response to volcanic activity	Yaguchi M., Ohba T. and Terada A.
10:20	Metal distribution and speciation in White Island hyperacidic crater lake	Mandon C., Christenson B. and Seward T.
10:40	Morning Tea	
11:00	Keynote talk: Reconstruction of the geology and structure of Lake Rotomahana and its hydrothermal systems from high-resolution multibeam mapping and seismic surveys: Effects of the 1886 Tarawera Rift eruption.	De Ronde C.E.J., LeBlanc C., Davy B.W., Fornari D.J., Caratori Tontini F., Scott B.J., Seebeck H., Mazot A. and Tivey M.A.
11:30	Enrichment of ferrous iron in the bottom water of Lake Nyos	Kusakabe M., Tiodjio R.E., Christenson B., Saiki K., Ohba T. and Yaguchi M.
11:50	High Temporal Resolution pCO ₂ Monitoring in Taal Volcanic Lake	Bernard A., Villacorte E., Maussen K., Maximo R., Caudron C., Antonia Bornas Ma. and Robic J.
12:10	Mass balance and heat input into the Kipyaschee Lake, Golovnin caldera, Kunashir, Kuril Islands	Taran Y. and Kalacheva E.
12:30	Lunch	
14:30	Redox processes and metal deposition beneath volcanic lakes	Henley R.W.
15:10	Poás volcano (Costa Rica): the pulsing heart of the Central America Volcanic Zone	Tassi F., Vaselli O. and Mora-Amador R.
15:30	Four decades of geochemical monitoring at Poás (Costa Rica): recurrent patterns in phreatic activity	Rouwet D., Mora-Amador R., Sandri L., Ramírez-Umaña, Gonzales-Illama G., Pecoraino G. and Capaccioni B.
15:50	Poás volcano: Significance of mobile trace elements in the hyperacid crater lake	Martínez-Cruz M., Keizer M., Avaré G., Brenes-Navarro, Herrera-Murillo J.

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16:10	Afternoon Tea	
Session 2. Gas emissions from acidic crater lakes		Session Chairs: Cindy Werner & Orlando Vaselli
16:30	Keynote talk: Gas emissions from crater-lake volcanoes compared to hydrothermal systems in the Taupo Volcanic Zone, New Zealand	Werner C., Christenson B., Mazot A. and Britten K.
17:00	First characterisation of Santa Ana crater lake gas composition (El Salvador) during the period 2017-2018	Hasselle N., Rouwet D., Aiuppa A., Battaglia A., Gutierrez E., Montalvo F., Villalobos A. M., de Moor M., Escobar D., Rivera J. and Bitetto M.
17:20	Varying CO ₂ /H ₂ S ratios above the shallow Fangaia mud pool, Solfatara (Campi Flegrei, Italy)	Rouwet D., Tamburello G., Sciarra A., Ricci T., Bitetto M. and Caliro S.
17:40	Finish	

Tuesday 19 March 2019		
Session 3. Hydrothermal systems surrounding volcanic lakes: surveys and models		Session Chairs: Joop Varekamp & Jennifer Lewicki
08:30	Keynote talk: Time variation in the chemical and isotopic composition of fumarolic gases at Taal volcano, Philippine	Ohba T., Yaguchi M., Numanami N., Barairo M.C.L., Alanis P., Bornas M.A., Kusumoto S., Nagao T.
09:00	Hydrothermal sediment from Paulina Lake, Newberry Volcano (OR): modern BIFs?	Cauley C., Tartell P., Smith C., Koetter S., Thomas E. and Varekamp J.C.
09:20	The Hydrothermal Heartbeat of Copahue volcano, Argentina	Alexander E. W. and Varekamp J.C.
09:40	Electrical Resistivity Tomography Images of a Hydrothermal System Modulated by an Active Crater Lake	Miller C., Christenson B., Brydina S., Vandemeulebruck J., Brakenrig T., Britten K., Shanks J. and Epstein G.
10:00	Changes in hydrothermal vent fluid chemistry at Brothers submarine volcano, Kermadec arc	Stucker, V.K. and de Ronde, C.E.J.
10:20	Morning Tea	
Session 4. Phreatic eruptions from Wet Volcanoes		Session Chairs: Bruce Christenson & Akihiko Terada
10:50	Keynote talk: Permeability reduction and other processes leading to phreatic eruptions from wet volcanic systems: Insights from the 28 April 2016 eruption from White Island, New Zealand	Christenson B., Kennedy B., Reyes A.G., Farquahr A., Heap M. and Henley R.W.
11:20	Seismic precursors to phreatic and phreato-magmatic eruptions in New Zealand	Jolly A., Lokmer I., Christenson B., Caudron C., Chardot L., Taisne B., Park I. and Kennedy B.

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11:40	The chemical and isotopic changes of the hot springs and fumaroles in the Jigokudani Valley, Tateyama Volcano, Japan	Seki K., Ohba T., Aoyama S., Ueno Y., Sumino H., Kanda W., Shinohara H., Toyama K., Yaguchi M. and Tanbo T.
12:00	Extraordinary sulfur volcanism at Poás (Costa Rica) during the past two centuries	Mora-Amador R., Rouwet D., Vargas P. and Oppenheimer C.
12:20	Shifting of eruptions behavior activity (phreatic/magmatic) at two hyperacidic lakes during 2017, Costa Rica	Gonzales-Ilama G., Alpizar Y., Ramirez C., Santamaria R., Salas-Moya C., Pereira R. and Vega-Baudrit J.
12:40	Lunch	
14:30	Round Table: "The role of crater lakes in forecasting phreatic eruptions" Panel: Art Jolly, Bruce Christenson, Akihiko Terada, Jen Lewicki, Dmitri Rouwet	
16:30	Poster Session	
	Session 2. Gas emissions from acidic crater lakes	
	Insights into sulphur degassing dynamics through H ₂ S-dominated acidic volcanic lakes	Hasselle N., Rouwet D., Aiuppa A., Jacome-Paz M.P., Pfeiffer M., Campion R., Taran Y. and Bitetto M.
	Hazardous CO ₂ -rich gas expulsions from the hyper-acid crater lake at Kawah Ijen, Indonesia	Kelly P., Saing U., Primulyana S., Suparjan, Purwanto B.H., Adriansyah D., Indrastuty N., Setiono S., Kristianto, Gunawan H., Rinehart A. and Paskievitch J.
	Session 3. Hydrothermal systems surrounding volcanic lakes: surveys and models	
	Long-term monitoring of hydrothermal features around the caldera lakes of Newberry Volcano, Oregon, USA	Lewicki J., Evans W., Ingebritsen S.E., Bergfeld D. and Hunt A.
	Session 6. Limnology of Lake Nyos and its nephews: searching for strata	
	Dissolved major and trace elements along a vertical profile in Barombi Mbo lake (Cameroon)	Pecoraino G., Brusca L., Cabassi J., Calabrese S., Rouwet D., Tassi F. and Vaselli O.
	Biogeochemical processes in a small Kenyan Rift Valley soda lake (Lake Sonachi): implications for methane emissions	Venturi S., Cabassi J., Buttunrini A., Vazquez E., Pacini N., Tassi F., Vaselli O., Amalfitano S., Crognale S., Rossetti S., Harper D.M., Capecchiacci F. and Fazi S.
	Petrogenesis of rocks from Nyos maar (Cameroon): Implication for plumbing below the volcano	Aka F.T., Hasegawa T., Miyabuchi Y., Nche L.N., Kobayashi T., Kaneko K., Asaah A.N.E., Kankeu B., Issa, Fantong W.Y., Ohba T., Kusakabe M. and Hell J.V.
17:30	Finish	

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Wednesday 20 March 2019		
Session 5. The impact of volcanic lakes on society: from mythology to risk mitigation		Session Chairs: Hollei Gabrielsen & Dmitri Rouwet
08:30	Keynote talk: Finding a balance; the holistic importance of water	Gabrielsen H.W.
09:00	Phreatic activity of the past and...the future: the study case of Greece	Daskalopoulou K. and D'Alessandro W.
09:20	Lago Albano, Rome, Italy: an updated hazard assessment by revising 2,800 years of literature	Rouwet D., Ciuccarelli C., Comastri A., Tamburello G., Chiodini G. and Costa A.
09:40	Morning Tea	
Session 6. Limnology of Lake Nyos and its nephews: searching for strata		Session Chairs: Minoru Kusakabe, Bill Evans & Greg Tanyileke
10:10	Keynote talk: Crater lakes of monogenetic (sensu lato) volcanoes and their complex geological origin	Nemeth K.
10:40	Biogeochemical Characterisation of a Geothermal Spring Input to Lake Rotoehu: Implications for Phosphorus Cycling	Eager C.A., Hartland A., Tempero G.W. and Hamilton D.
11:00	Characteristics of underwater topography in Lake Monoun, Cameroon	Ohba T., Oginuma Y., Saiki K., Kusakabe M., Issa, Fouepe A., Ntchantcho R., Tanyileke G. and Hell J.V.
11:20	Structural reinforcement and geochemical monitoring of Lake Nyos dam: Implications for environmental sustainability and social wellbeing	Fantong W.Y., Kamtchueng B.T, Ntchantcho R.V., Tanyileke G. and Hell J.V.
11:40	Mining lakes with extreme gas pressures in the deep waters: responsible gases, their origin and how to deal with the issue	Boehrer B., Sanchez-Espana J. and Yusta I.
12:00	Unusual water geochemistry at Coatepeque, Ilopango and Chanmico volcanic lakes (El Salvador, Central America)	Cabassi J., Capecchiacci F., Magi F., Vaselli O., Tassi F., Montalvo F., Esquivel I., Grassa F. and Caprai A.
12:20	Lunch	
Session 7. Carbon dioxide degassing at volcanic lakes: theory and practice		Session Chairs: Artur Ionescu & Agnes Mazot
14:00	Keynote talk: The carbon cycle of East Lake, Newberry Volcano, OR	Varekamp J.C., Brumberg H., Capece L., Wagner M. and Cauley C.
14:30	The Carbon Dioxide Budget of Taal Volcanic Lake	Bernard A., Villacorte E., Maussen K., Maximo R., Bornas MA.A. and Robic J.
14:50	CO ₂ degassing from White Island (Whakaari), New Zealand	Mazot A., Christenson B., Britten K. and Scott B.
15:10	Geochemistry and carbon-dioxide flux of the St.Anna crater lake (Ciomadul volcano, Romania)	Ionescu A., Kis B-M., Cardellini C., Pop C., Palcsu L., Baciu C. and Harangi S.
15:30	Afternoon Tea	

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15:50- 17:30	CVL Business Meeting: (1) State of CVL in 2019 (2) Election new Leader and SC (3) Proposals CVL11-2022 (+ assignment CVL Secretary) (4) Intro to 2019 Kusakabe Award (to be awarded during barbeque at Debrett's Thermal Spa)
18 :15 - 21 :00	Bus departs for Debrett's Thermal Spa: Barbeque