

9th International Conference on Gas Geochemistry

Taiwan, October 1-8, 2007

Second Circular

Date and Venue of the Conference

The conference will be held in early October, 2007, at the Condensed Matter Science and Physics Building, NTU, which is in the campus of National Taiwan University.

Schedule for the conference

S	M	T	W	T	F	S
<u>9/30</u>	<u>10/1</u>	<u>10/2</u>	<u>10/3</u>	<u>10/4</u>	<u>10/5</u>	<u>10/6</u>
	Scientific Program	Scientific Program	Scientific Program	Scientific Program	Scientific Program	Field Excursion
	Scientific Program	Scientific Program	Scientific Program	General Assembly	Social Activity	
Ice Breaker	Welcome Party		Business Meeting of International Committee	Banquet Party	Social Activity	
<u>10/7</u>	<u>10/8</u>	10/9	10/10	10/11	10/12	10/13
Field Excursion						

Scientific program

We have received more than 100 abstracts from participants of 22 countries. They cover a wide variety of applications of gas geochemistry in earth sciences, including:

- (1) Gas/fluid migration and transportation in terrestrial and marine environments related to the studies of regional tectonics, hot springs, natural gas emission, faults, and gas stability
- (2) Earth degassing (geogas) and its relation to earthquakes and volcanic activity
- (3) Hydrocarbon and gas hydrates
- (4) Rare gas dating & gas geochemistry on hard rocks and their applications
- (5) Environmental monitoring
- (6) Biogeochemical processes
- (7) Measurement and analytical techniques and quality control

Preliminary scientific program is arranged based on different fields of studies and applications. Detailed program has been released on the official website of the conference (<http://icgg9.gl.ntu.edu.tw>). Please refer the website for updated program.

To encourage the young scientists to join this society, the organizing committee decided to arrange a special session for young scientists. It will include all enrolled students and young post-doc researchers. The best paper(s) will be selected by referees, and awarded in the general assembly.

Guideline for presentation

Oral Presentation:

Except for the first keynote address, the presentation time for each invited speaker is 30 minutes; rest speaker is 20 minutes (both including 5 min discussion) for oral sessions. There is only one screen in the conference hall. No overhead projector will be provided. The speakers need to prepare their slides in the format of Microsoft PowerPoint file.

Poster Presentation:

The frame size for poster display is 150cm (width) x 90cm (height). All presenting authors of poster sessions are requested to present their work briefly for 3-5 minutes at the beginning of scheduled poster sessions before moving to the poster place for further discussion. In addition to the poster, therefore, the authors need to prepare 3-5 slides in the format of Microsoft PowerPoint file too.

Special issues as conference proceedings

We are contacting some publishers for potential publication of selected papers as conference volume(s) in international SCI journal(s). The submission deadline of the full papers is December 31, 2007. Detailed requirements for preparation of the manuscripts will be given in future correspondence.

Conference Fee

It includes admission to the poster and oral presentation sessions and, program and abstract volume, refreshments, lunch boxes during the conference from October 1 to 5, and the official activities (ice breaker, welcome party, banquet dinner and transportation of social activity). Please refer the conference website for the method of the payment.

Full Registration	Before July 30, 2007	US\$350
	After July 30, 2007	US\$450
Student	Before July 30, 2007	US\$150
	After July 30, 2007	US\$250
Em./retired member	Before July 30, 2007	US\$150
	After July 30, 2007	US\$250
Accompanying person	Before July 30, 2007	US\$100
	After July 30, 2007	US\$150

Invitation letter and Visa application

We have sent the invitation letter to most participants by email. In case you need the original copy of the letter for your application, or you have not received the letter yet, please contact us. We will send/post you the letter right away.

To come in Taiwan for the conference, you may need to apply the visa. Please consult your travel agency and Taiwan's Embassies/Missions in/nearby your countries how to apply for that. Don't hesitate to contact us if you need any help from organizing committee.

Traffic

There are three ways to reach conference venue and hotels. Door-to-door pickup can be arranged. Contact us to reserve the pickup service. Please refer the website of ICGG9 for detail information.

Information and Correspondence

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Preliminary Technical Program of ICGG9 (7/28/2007 updated)

Sunday (9/30)

16:00-18:00 Registration

18:00-20:00 Ice breaker

Monday (10/1)

08:30-09:00 Registration

09:00-09:20 Opening

09:20-10:00 Keynote address-1 moderated by C.H. Lo

M. Ozima*, Q.Z. Yin and Y. Miura Earth Evolution Recorded in Noble Gases and Volatiles in the Moon

10:00-10:40 group photo-1 and break

10:40-12:10 Keynote address-2 moderated by Y. Taran

B. Marty*, N. Coltice and A. Meibom Noble Gas Sources and Fluxes in the Hadean
M.D. Kurz* and J. Curtice Residence Sites of Noble Gases in Basalt Glasses and Peridotites: Implications for Partitioning and Gas Migration
W.L. Huang Oil and Gas Generation and Expulsion: Seeing is Believing

12:10-13:20 lunch

13:20-15:10 Oral session-1 moderated by F. Italiano

invited J.K.W. Lee Using Argon as a Temporal Tracer of Large-Scale Geologic Processes
H. Woith*, C. Gajewski et al. Cyclical and Transient Radon Variations at the Tiberias Hot Spring, Israel
S.K. Bartarya*, V.M. Choubey et al. Radon and Helium in Thermal and Natural Water Springs of Upper Bhagirathi, Mandakini and Yamuna Valley, Garhwal Himalaya
F.E.B. Bayon* and G. Magro Differences in Noble Gas Signatures in two Active Geothermal Systems in the Philippines
V. Wallia*, S.J. Lin et al. Soil-Gas Monitoring: A Tool for Fault Delineation Studies Along Hsinhua Fault (Tainan), Southern Taiwan

15:10-15:30 break

15:30-17:00 Oral session-2 moderated by D. Hilton

invited Y. Taran Problems in Interpretation of Nitrogen and Argon Data for Volcanic and Hydrothermal Gases
B.G. Polyak Mantle Helium Traces around Elbrus and Kazbek Volcanoes (Northern Caucasus)
Y. Sano*, N. Takahata and J. Yamamoto High ³He Emanation Observed in a Forearc Region of the Kinki district, SW Japan: Revisited
T. Ohba*, T. Sawa et al. CO₂/H₂O Ratio of Magmatic Gas Estimated from the Analysis of Fumarolic Gas Sampled at Tatun Volcano Group, Taiwan

17:00-17:20 group photo-2

18:30-20:00 Welcome Party

Tuesday (10/2)

08:30-10:20 Oral session-3 moderated by K. Notsu

invited D.R. Hilton*, E. Fueri et al. Helium Isotope Studies in Regions of Crustal Unrest: the San Andreas Fault Zone, California and the North Anatolian Fault Zone, Turkey
W. Balderer* and F. Leuenberger Detection of Sensitive Compounds in Groundwater with Observed Enhanced Fluorescence Spectra from Earthquake Prone Areas: First Results
J. Heinicke*, G. Martinelli and L. Telesca A 1000 m Water Well as a Test Monitoring System for the Detection of Possible Earthquake Related Anomalies in Fluids
L.L. Chyi*, T.J. Quick et al. Origin and Detection of Spike-Like Anomalies in Soil Gas Radon Time Series
G. Yuce*, T. Streil et al. Multi Parameter Hydrogeological Monitoring in Eskisehir region (Turkey) to Analyze any Precursors Derived from Earthquakes

10:20-10:40 break

10:40-12:10 Poster session-1 moderated by W. Balderer

K. Kant* and S.K. Chakarvarti Alpha Active Pollutants as a Precursor of Seismic Activity: A Review
K.C. Fan, M.C.T. Kuo* et al. Anomalous Decreases in Groundwater Radon Precursory to Earthquakes in Eastern Taiwan
T. Jimsheladze, Z. Machaidze, G. Melikadze, G. Kobzev, G. Martinelli* et al. Multi-Parametrical Monitoring of Deep Seated Fluids for the Characterization of Medium-Short Term Transients in the Crustal Strain Field
A. Negarestani A New Approach Based on Electrical Circuit Model for Using of Time Variation of Radon Concentration in Earth as an Earthquake Precursor
A. Negarestani*, F. Nasari et al. Continuous Radon Monitoring in the Hot Spring of Sirch as an Earthquake Precursor
I. Laskar*, A. K. Goswam et al. Correlation between Radon Anomaly with Meteorological Parameters and Earthquake

12:10-13:20 lunch

13:20-15:10 Oral session-4 moderated by G. Zellmer

invited K. Notsu* and T. Mori Chemical Monitoring of Volcanic Gas Using Remote FT-IR Spectroscopy at Several Active Volcanoes in Japan
R.P. Singh*, S. Kumar J and A.K. Prasad Satellite Detection of Carbon Monoxide Emission Prior to Earthquakes and Volcanoes
E. Faber*, M. Teschner et al. Continuous Gas Monitoring at Three Volcanoes
U. Koch*, J. Heinicke et al. The Gas Flow at Mineral Springs and Mofettes in the Vogtland/NW Bohemia: An Enduring Long-term Uptrend
A. Caprai Methods and Apparatus for Feeding Samples of Gas at Controlled Pressure into Gas Chromatographs (International Patent US 11/718,896 and IT/12.11.04 ITA PI20040083) and its Application in Geochemical Surveillance

15:10-15:30 break

15:30-17:10 Poster session-2 moderated by S. Chalupnik

J. He*, X. Bin and Y. Pin	Migration and Accumulation Characteristics and Potential of Multi-Origin Inorganic CO ₂ in the Ying-Qiong Basin, the South China Sea
N.K. Das*, R.K. Bhandari et al.	Scaling and Crossover Phenomena in Anomalous Helium Sequence
M.M.M. Olivar*, D.B. Dacillo et al.	Tritium As Vapour-Phase Tracer in Leyte Geothermal Production Field: Initial Results
T.F. Yang*, C.C. Fu et al.	Radioactive Gas Emission from Mud Volcanoes in Taiwan
V. Walia*, S. Mahajan et al.	Geochemical Characterisation of Some Thermal Spring Waters of Himachal Himalayas, India
V.M. Choubey*, S.K. Bartarya and R.C. Ramola	Effect of Hydrogeology and Monsoon on Radon Concentrations in Groundwater of Intermountain Basin of Outer Himalaya
F. Akper	Hydrocarbon Migration and Gas Survey Efficiency in Different Tectonic Settings
A.L. Ramanathan*, R. Chauhan and T.K. Adhya	Dynamics of CH ₄ and N ₂ O Emission Flux from Bhitarkanika Mangrove Sediments of Eastern Orissa, India

Wednesday (10/3)

08:30-10:20 Oral session-5 moderated by J. Heinicke

invited

G. Etiope*, A. Feyzullaiev and C.L. Baciu	Methane Seeps and Mud Volcanoes on Land: A Global Perspective of Gas Origin and Advective Fractionation
K. Bräuer*, G. Strauch and H. Kämpf	The Different Degassing Behaviour of Upper Mantle-Derived Fluids in the Western Eger Rift Area (Central Europe)
S. Singh*, D.K. Sharma et al.	Tectonic Significance of Radon in the Frontal Himalayan Zones of Nurpur Area District Kangra, Himachal Pradesh, India
W.L. Hong* and T.F. Yang	Methane Flux from Accretionary Prism Through Mud Volcano Area in Taiwan- From Present to the Past
C.H. Sun*, C.L. Kuo et al.	Geochemistry and Hydrocarbon Potential of Mud Volcanoes in Taiwan

10:20-10:40 break

10:40-12:30 Oral session-6 moderated by A. Waseda

invited

F. Italiano*, G. Martinelli et al.	Greenhouse Gases Released from the Apennine Chain, Italy: Mechanochemical Production Besides Mantle-Derived Contribution
Z. Duan*, Z. Zhang et al.	Thermodynamic Models of Various Gases and Mixtures Covering a wide Temperature-Pressure-Composition Space
C.K. Lin	The Optimum Sequestration Depth for CO ₂ Geo-Sequestration
M. Zimmer* and J. Erzinger	Development and Application of a Gas Membrane Sensor for In-Situ Down Hole Observation of Gases During Geological Storage of Carbon Dioxide
T.F. Yang	Natural Analogue of Long-term CO ₂ Storage in the Sedimentary Formation of Western Taiwan

12:30-13:30 lunch

13:30-15:10 Oral session-7 moderated by W.R. Chi

Z. Song*, Y. Zhong and C. Wang	Characterizing Organic Matter in the Surface Sediments Associated with Gas Hydrate and Oil Seepage From the Gulf of Mexico
A. Waseda* and H. Iwano	Characterization of Natural Gases in Japan Based on Molecular and Carbon Isotope Compositions
Y. Wang*, C. Zhao et al.	Origins of Natural Gases from Marine Strata in Northeastern Sichuan Basin (China) by Molecular and Carbon Isotopic Data
H. Pfan	Geogenic CO ₂ -Exhalations and Vegetation – Mofette Plants
T. Laier* and H.P. Nytoft	Gases with Abiogenic Signature in Association with Bitumen in Alkaline Rocks of the Ili-maussiaq Intrusion, Greenland

15:10-15:30 break

15:30-17:20 Poster session-3 moderated by L.H. Lin

H. Lu* and J.A. Ripmeester	The Factors Affecting Gas Hydrate Formation in Natural Environment
Y. Wang*, D.F. Chen and Z. Song	Detecting Surface Oil Slick Related to Gas Hydrate/Petroleum on the Ocean Bed of South China Sea by ENVI/ASAR Radar Data
J.N. Oung* and Z.Y. Lin	Geochemical Characteristics and Genetic Origin of Natural Gas Discovered in Taiwan
J.N. Oung* and D.C. Chen	Cutting Gas of Exploration Wells in Taiwan- Geochemical Characteristics and Implications in Hydrocarbon Generation
C.H. Sun*, C.L. Kuo et al.	Occurrences and Isotopic Geochemistry of Natural Gases in Western Taiwan
T.F. Yang*, G.H. Yeh et al.	Evolution of Mud volcanoes in the Accretionary Prism of Southern Taiwan: Constraints of Gas and Fluid Geochemistry
D.F. Chen*, Z. Lin et al.	REE Signature of Redox Variation and Microbiological Process Preserved in Seep Carbonate at Gas Vent Site
D. Feng, D.F. Chen* and H.H. Roberts	Sedimentary Fabrics in Seep Carbonates from Bush Hill: Implications for Biogeochemical and Microbiological Processes
T.K. Liu*, K.Y. Chen et al.	Origin of Methane in Aquifers under two Coastal Plains of Taiwan

18:00-20:00 Business Meeting of International Committee

Thursday (10/4)

08:30-10:30 Young Scientists Poster Presentation

moderated by A. Kies, G. Martinelli, L.L. Chyi and W.L. Huang

N. Taira* and J. Hirabayashi	The Effusion Mechanism of Onikobe Geyser (Japan) from Chemical and Isotopic Study
S. Mahajan*, V. Walia et al.	Soil Gas Survey in Mandi- Sundernagar Area, NW Himalaya, India: Prospecting in Fault Delineation Studies
C.C. Fu*, T.F. Yang et al.	Soil Gas Investigation on the Tapingdi Fault in Northern Taiwan and the Continuous Monitoring Results
W.L. Hong*, T.F. Yang et al.	Evidences Support Nitrogen as Carrier Gas of Helium Along Hsincheng Fault, NW Taiwan
T.F. Lan*, T.F. Yang et al.	Invasion of Mantle-Derived Fluids into I-Lan Plain, NE Taiwan from Southwest Part of the Okinawa Trough: Evidence of Helium Isotopes in Soil Gases
A. Kumar*, S. Mahajan et al.	Geochemical Earthquake Precursor Studies in NW Himalayas, India
H.F. Lee*, T.F. Yang et al.	Gas Compositions and He-C Isotopic Ratios of Fumarolic Samples from Some Active Volcanoes in Philippines
H.F. Lee*, T.F. Yang et al.	Temporal Variations of Gas Compositions of Fumaroles in the Tatan Volcano Group, Northern Taiwan
J.C. Shen*, C.H. Sun et al.	Gas from Neogene Coals in the Northwestern Taiwan Region by Hydrolysis

P.C. Chuang*, T.F. Yang et al.	Estimation of the Thickness of the Base of Hydrate Stability Zone in Offshore of SW Taiwan Based on Geochemical Data
W.L. Hong* and T.F. Yang	Methane Flux from Accretionary Prism Through Mud Volcano Area in Taiwan- From Present to the Past
G. Czuppon*, T. Matsumoto and J. Matsuda	Helium and Argon Isotopes Measured in Spinel Peridotite Xenoliths from Mt. Quincan, North Queensland, Northeast Australia
T.H. Lin*, C.H. Lo et al.	⁴⁰ Ar / ³⁹ Ar Dating of the Jiali and Gaoligong Shear Zones and its Tectonic Implications to the Crustal Deformation Around the Eastern Himalaya Syntaxis
C.Y. Wu* and C.H. Lo	3-D Plane-Fitting Program in ⁴⁰ Ar/ ³⁹ Ar Dating
J.P. Maity*, C.C. Liu and J.S. Jean	Gas Biogeochemical Characterizations of Wu-Shan-Ding and Shiao-Kun-Shui Mud Volcanoes in Taiwan
P.H. Chu*, C.C. Chen et al.	Evaluating the Potential of Anaerobic Methane Oxidation in Terrestrial Mud Volcanoes of Southern Taiwan
C.K. Chen*, J.J. Wu et al.	Inventory of Metabolic Energy Deduced from Aqueous and Gas Geochemistry of Hot Springs in Northern Taiwan
D.E. Tchorz and A.T. Solecki	Seasonal Variation of Radon Activity in Atmospheric Air - Nowa Ruda Area (Sudety Mts. SW Poland)
J.P. Das* and S.V.S. Murty	Presence of Insoluble Organic Matter in Chondrule Precursors

10:30-10:50 break

10:50-12:10 Poster session-4 moderated by C. Baciú

H. Pfnaz*, F. Saßmannshausen et al.	Plant Based Detection of Dry Mofettes – an Example from the Volcanic Laacher See District, Germany
P. Görlitz, J. Heinicke* et al.	Submarine Gas Flow Monitoring at Panarea Volcano, Italy
T. Matsumoto*, J. Matsuda et al.	Noble Gases in Stalagmite Inclusion Fluids: Preliminary Results
C. Flechsig*, C. Schütze et al.	Geoelectrical Investigation of Magmatic Degassing Zones in the Eger-Rift (Central Europe): A Case Study of the Hartousov Mofette Field
A. Caprai*, E. Calvi et al.	Geochemical Surveillance of Reactive Gas from Pozzuoli Solfatara (Naples, Italy): Chronological Evolution and Local Ground Displacement
J.H. Obenholzner*, J. Parks and M. Edwards	Arsenic Eaters, Arsenic Drinkers and Arsenic Breathers – Are We Prepared for the Next Big Volcanic Eruption?
A.T. Solecki* and D.E. Tchorz	Radon Emanation from Coal Ashes
R. Mehra*, S. Singh and K. Singh	Assessment of the Average Effective Dose from the Analysis of ²²⁶ Ra, ²³² Th and ⁴⁰ K in Soil Samples from Punjab, India
M. Wysocka	Radon in some Jurassic Caves in Southern Poland
Eric Reiter	GIS : A New Tool for Volcanic Gases' Survey – A Case Study at Vulcano Island, Southern Italy
Eric Reiter	VolcanoGasML: A New Format for Geochemical Volcanic Gases Data
J. Liu* and Z. Song	Chemical Changes in Rainwater in a Time of Extremely Rapid Urban Development of Guangzhou China

12:10-13:30 lunch

13:30-14:00 Introduction of Field Excursion

14:00-17:00 General Assembly

18:30-21:00 Banquet Party

Friday (10/5)

08:30-10:10 Oral session-8 moderated by A.T. Solecki

O. Vaselli*, F. Tassi et al.	Gas Discharges from the Nyiragongo Volcano (D.R. Congo) and Surrounding Areas: Implications for Environmental Impact and CO ₂ -related Risks from Dry Vents
C. Baciú*, L. Spulber et al.	Methane Seepage Hazard for Urban Development Areas – A Case Study
A. Kies* and Z. Tosheva	Natural Radioactive Isotopes in Glacier Studies
S. Chalupnik	Method of Simultaneous Measurements of Radon and Radon Progeny in Air
B.S. Bajwa*, H. Singh et al.	Environmental Radioactivity Monitoring around the Tusham Ring Complex, Haryana : A Case Study

10:10-10:30 break

10:30-12:20 Oral session-9 moderated by H. Woith

invited

N. Perez	Diffuse CO ₂ Emission and Volcanic Activity
D. Shanker*, H.N. Singh et al.	Geological Evidence of Natural Radioactivity in Southern Tamil Nadu, India - Impact on the Human, Animal Health and Natural Environment
R.M. Barragán*, V.M. Arellano et al.	Major ²²² Rn Anomalies in Fluids of Los Azufres (México) Geothermal Field
R. C. Ramola	Subsurface Changes in Radon Concentration Associated with Earthquake Activity in Garhwal Himalaya
T. Streil*, V. Oeser and M. Ogena	Continuous Measurement of Geo-chemical Parameters in Aggressive Environment

12:20-13:30 lunch

13:30-20:00 SocialActivity

Saturday (10/6) - Monday (10/8)

Field Excursion

note that: (1) each invited speaker has 30 min and rest speaker has 20 min presentation time (including 5 min discussion) for oral sessions.

(2) all the presenting authors of poster sessions need to present 3 slides (3-5 min) of PowerPoint file to promote their work in the scheduled session before discussing with colleagues in front of their posters.

(3) the young scientists poster session include all enrolled students and young post-doc researches; the best paper(s) will be selected by referees and awarded in the general assembly.

(4) * denotes the presenting author; and x indicates absence of the authors of the paper.