



IAEG NEWSLETTER

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EXECUTIVE COMMITTEE AND COUNCIL MEETING 2013

By the Secretariat

Before the International Symposium & 9th Asian Regional Conference of IAEG in Beijing International Conference Center, China on 24th - 25th September, 2013, IAEG held its Executive Committee meeting and Council meeting on 22nd and 23rd.

The President, Secretary General, Treasurer, Vice Presidents, members of TOC, Editor in Chief of Bulletin and website have given their reports, and some important issues have been discussed referring the strategy of commission development, relationship with sister societies, Bulletin, 50th anniversary book, Bylaws modification, proposal for IAEG-International Research Program (IRP) & IAEG Science-Technology Awards (S-T Awards).

The Council has reached agreements and made the following decisions:

The reports of Secretary General and Treasurer have been approved.

The Council approved the proposal from TOC and decided to close the following inactive commissions: C23, C26, C30, C31 and C33.

Start a survey on the new structure of membership fee: with digital version, with paper version of Bulletin. And the proposal will be submitted to the Council next year.

Provide a certain amount of financial aid from the IAEG budge to support the Congress 2014 in Torino.

The draft of Bylaws modification has been approved with new items for Marcel Arnould Medal, Richard Wolters Prize & Hans Cloos Medal. The 1st Marcel Arnould Medal will awards at the Congress 2014.

The Council discussed the proposals for IAEG-International Research Program (IRP) & IAEG Science-Technology Awards (S-T Awards) . Improvement for the proposals by comments collection is required and their will be submitted to the Council next year.

The meetings of the Executive Committee and the Council will be held at the occasion of the Congress 2014 and 50th anniversary celebration of IAEG in Torino.



Photos of the Council meeting 2013 in Beijing

New Bylaws http://www.iaeg.info/Documents/Bylaws_2013.pdf

ACTIVITY OF THE PRESIDENT

On June the 26th took place a teleconference which was planned for all Ex Com. But finally had three Attendants: Mrs. Ann Williams (V.P. for Australia), Mr. Ian Jefferson (V.P. for Europe) and Prof. Carlos Delgado (President). Other V.P.s were invited to join this Teleconference, but some of them excused their participation, and others couldn't be reached at the beginning of this phone meeting.

Different subjects were discussed:

- Website improvement: Ann Williams would contribute with a short presentation about this matter during the Ex. Com Meeting.
- Torino Congress: Giorgio Lollino sent some figures about abstracts, papers, kin-out speeches and sessions.
- 50th Anniversary Book. Carlos Delgado informed after last meeting with the following Attendants: Carlos Delgado, Paul Marinos, Ricardo Oliveira and Sébastien Dupray). They concluded that the 50th Anniversary Book is possible and feasible. But agreed that it would be necessary some financial help could be provided by the China and America National Groups, also to find an Editor and engage him for September. Defined also the structure of the Book (Blocks, raws and illustrations).
- Other matters: Ann Williams will prepare the Bylaws of R.Wolters Prize and Hans Closs Medal. Marcel Arnould will be done by French N.G. Finally, preparing tasks for the next Meeting and Asian Regional Conference that would take place in Tokyo in 2015.

In July 20th took place a monographic Meeting about the 50th Anniversary Book held in Torino with Attendants: Giorgio Lollino, Ricardo Oliveira, Paul Marinos, Faquan Wu, Sébastien Dupray and Carlos Delgado.

To prepare the editing tasks of the 50th Anniversary Book another meeting occurred in Madrid in August 31st, organized by Carlos Delgado and Sébastien Dupray to select a candidate for Editor. During the Ex Com Meeting held at Beijing, Marianne Copeland was selected as Editor. She is already working actively for keeping our schedule in this important project.

Attended Beijing's International Symposium & 9th Asian Regional Conference of IAEG. Ex Com Meeting and the Council Meeting which took place before the Conference in September, 2013?

- On 22 September presided over the IAEG Executive Committee meetings in which a series of important issues and arrangements of IAEG were discussed.
- On 23 September attended and chaired IAEG Council meeting. Attended the appreciation Banquet held for co-organized units of the conference and gave award to each representative.
- On 24 September, addressed keynote lecture on the opening ceremony, introduced results of "Engineering Geology IAEG hot spots and development proposals" global online survey, and made an important blueprint for development of engineering geology discipline as well as IAEG. Had lunch together with representatives of NGs in Asian region.
- On 25 September attended the lunch of C29 Committee and hosted dinner with all staff and volunteers of the Organization of the conference, presented certificates to all volunteers.

Sophie Roche was elected between the candidates to elaborate the Graphic Design of the jubilee book.

To review the Project Plan and the Status (Table of Content) of the Edition of the 50th Anniversary Book, another phone conference occurred on October 22nd, 2013. With Sébastien Dupray, Marianne Copeland, Sophie Roche as participants, and Carlos Delgado as Coordinator. We discussed about the part done and the critical tasks to be completed.

REPORTS OF IAEG MEETING 2013

www.iaegasia2013.com

The International Symposium & 9th Asian Regional Conference of IAEG was held in Beijing International Conference Center, China on 24th - 25th September, 2013, with 234 delegates from 30 countries attending the meeting.



Opening ceremony

The conference was organized by IAEG China National Group, the 29th Committee of IAEG and Key Laboratory of Engineering Geomechanics, Institute of Geology and Geophysics, Chinese Academy of Sciences. And 18 well-known units co-organized the conference; they are Chinese Academy of Sciences, National Natural Science Foundation of China, China Geological Survey Bureau, China Hydropower Consulting Group, China JK Institute of Engineering Investigation and Design, Institute of Geomechanics, China Railway First Survey and Design Institute, Xi'an Geology Survey Center and Guangdong Hydropower Planning and Design Institute, etc.

The conference has received 305 abstracts. CRC published the conference proceeding and CD and a collection of abstracts has been organized.



Sijing Wang and Carlos Delgado give keynote lectures

The conference opening ceremony was grandly held at 8:40 on the morning, 24th. Runqiu Huang, IAEG vice president for Asia chaired the opening session. Sijing Wang, the chair of Academic committee delivered the opening speech and introduced the conference theme. The chair of organization committee, Faquan Wu made working report on conference organization. His report described the characteristics of the conference: special theme "Global View of Engineering Geology and the Environment", high level theme lectures and invited lectures, high

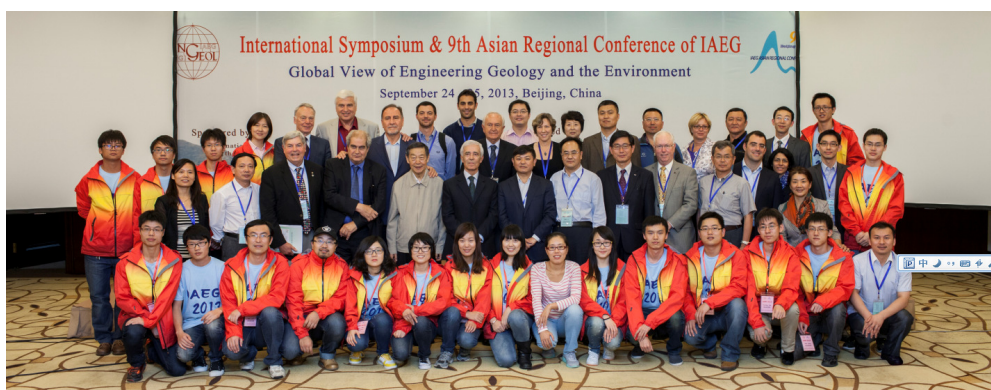
quality conference proceedings and abstracts and elaborate organization work; he was appreciated for 78 reviewers from many countries, 18 co-organizers, the conference organizer and the volunteers. Yan Zhuang delivered the welcome speech on behalf of the Chinese Academy of Sciences, Runqiu Huang made the welcome speech on behalf of the Asian region, and Carlos Delgado represents the IAEG congratulation message.

Two plenary sessions and twelve sessions were arranged in the conference. In those sessions, 83 scholars made the oral reports. Preceding scientific problem are discussed and communicated including crustal stability and dynamical geo-hazards, engineering geology in major construction projects, urbanization and geological environment, new ideology and technology in engineering geology. The problems, structure & behavior of soil & rock Mass and Geo-hazards in Karst and Loess Areas, were discussed in the special workshop. International co-operational projects were communicated in a special seminar.

Eight outstanding engineering geologists in the international community were invited to give lectures. Sijing Wang, past president of IAEG, delivered the lecture on Geo-sphere dynamics and human-Earth harmonization. Carlos Delgado, president of IAEG, introduced strategy for the development of engineering geology and IAEG. Paul Marinos, the IAEG past president made the report on deep and long tunnels in the Himalayas--a review, experiences and lessons learned. Juhua Xiong introduced the support from China Natural Science Foundation for the development of engineering geology in China. David Cruden, a well-known Canadian engineering geologist, talked about assessing the stability of a natural slope. Donald Helm, American scholars, introduced the aquifer mechanics based on the Darcian Flow, and Scott Burns, talked on risk estimation and reduction of geological hazards. 29 invited lectures were delivered in the Symposium. During the conference, 45 scholars made posters and 20 vendors, and co-organizers and IAEG national groups also showed posters.

Four IAEG Committees held their work meetings during the conference and discussed the development strategy and output of achievements. The president of IAEG, Carlos Delgado and past president Sijing Wang awarded medals for the hosts and co-host units during the symposium, and visited their posters. Carlos Delgado and Sijing Wang also hosted Asian national groups fellowship lunch and volunteer appreciation dinner.

The conference closing ceremony was celebrated in the afternoon of 25th September; Faqun Wu made the academic summary. He pointed out that this conference made scholars roundly understood the frontier problems in the field of engineering geology and environment. They are considering the developing strategy of the disciplines of engineering geology, and IAEG stressed the developing strategy design for the subject. The leading role of IAEG and its commission in the subject should have been more and more strengthened. Giorgio Lollino introduced the preparations for the IAEG 2014, and invited the delegates to attend, IAEG Japan national group issued invitation of the 10th Asian regional engineering geological conference in 2015, and Bulgaria national team presented the holding of the European region engineering geology conference and issued invitation. Carlos Delgado congratulated for the big success of conference, and at the end, Runqiu Huang gave the closing remarks.



Group photo with volunteers

REPORTS OF IAEG CONGRESS 2014

<http://www.iaeg2014.com/>

● News and seasonal greetings!

Dear Colleagues,

the Organizing Committee is proceeding with the management of the full papers revision phase, which should be completed by 15th January 2014. At this stage, despite the very large number of full papers received, with the support of Authors, Conveners, and E.G. Topic Experts, we have been able to keep the expected timetable. We hope to continue keeping this also for the following steps.

The Organizing Committee wishes to all of you Seasons Greetings, and hopes that the coming New Year may bring you joy, love, peace, new perspectives and also encourage you to come to Torino's IAEG 2014 Congress!

Giorgio Lollino
Congress Chair

● Solidarity fund awards

We remind that the Council of the IAEG has agreed to make available funds from its Solidarity Fund to financially assist delegates with lesser financial resources to attend the XII IAEG Congress. Successful applicants will have their Congress Registration Fee covered in full or in part.

If you have interest on this possibility, please complete the form available on the website (<http://www.iaeg2014.com/solidarity-fund>) to apply for a solidarity fund award and submit it via email to secretariat@iaeg2014.com, together with a letter demonstrating financial hardship, no later than 30 April 2014. Incomplete applications will not be accepted.

● Exhibition & sponsorship

On the website, at the page <http://www.iaeg2014.com/sponsorship-prospectus>, is available the information relevant to the Congress Exhibition and Sponsorship opportunities. During the Congress, the exhibition will play a pivotal role in enabling us to bring cutting edge science to the national and international stage. The participation as a sponsor and/or exhibitor will provide you an opportunity to show to the Congress participants your activities and products! Please feel free to share this information with your contacts that might potentially be interested in becoming sponsor of the IAEG 2014 Congress.

For any further information or request do not hesitate to contact: secretariat@iaeg2014.com

CALL FOR NOMINATION OF IAEG OFFICERS 2015-2018



| | |
|--------------------|---------------------------|
| President: | Prof. Carlos Delgado |
| Past President: | Dr. Fred Baynes |
| Secretary General: | Prof. Wu Faquan. |
| Treasurer: | Mr. Pierre Potherat |
| Vice Presidents | |
| Africa: | Dr. John Stiff |
| Asia: | Prof. Huang Runqiu |
| Australasia: | Dr. Ann Williams |
| Europe: | Prof. Atiye Tugrul |
| | Dr. Ian Jefferson |
| North America: | Dr. Réjean Couture |
| South America: | Dr. Silvina Andrea Marfil |

IAEG Secretariat:
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Call for Nominations for Officers of IAEG Executive Committee for 2015-2018

National Groups and members of the Executive Committee,

This is a call for nominations for officers of IAEG Executive Committee for 2015-2018 including president, vice presidents for geographic regions, secretary general and treasurer. Based on the current state, the geographic regions are divided into seven parts i.e. Africa, Asia, Australia, Southern Europe, Northern Europe, Southern America and Northern America, each with a vice president for responsible region.

Please send the following materials to the Secretary General before **May 13, 2014**

1. A formal recommendation letter signed by the recommender;
2. A CV of the candidate;
3. A statement of the candidate for his/her plan of performance.

For more detailed information please refer to the IAEG Statutes and Bylaws at the website:

www.iaeg.info .

IAEG Bylaws:

4.1.1. Nominations for the offices of President, Secretary General and Treasurer may be made by the individual members of the Executive Committee or by members of any country, through the National Group representative. Nominations for the offices of regional Vice-President may be made by representatives of the National Groups within the specific geographical area concerned and by members of the Executive Committee.

4.1.2. The Secretary General will call for nominations for officers of the Executive Committee one year in advance. Nomination lists will close four months before a Council meeting provided at least one nomination per office has been received. Seconding is not required.

Faquan Wu

Professor Faquan Wu
Secretary General of IAEG
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Email: iaegsg@163.com

NOMINATION FOR HCM & RWP 2014



| | |
|---------------------------|---------------------------|
| President: | Prof. Carlos Delgado |
| Past President: | Dr. Fred Baynes |
| Secretary General: | Prof. Wu Faquan. |
| Treasurer: | Mr. Pierre Potherat |
| Vice Presidents | |
| Africa: | Dr. John Stiff |
| Asia: | Prof. Huang Runqiu |
| Australasia: | Dr. Ann Williams |
| Europe: | Prof. Atiye Tugrul |
| | Dr. Ian Jefferson |
| North America: | Dr. Réjean Couture |
| South America: | Dr. Silvina Andrea Marfil |

CALL FOR NOMINATIONS FOR THE HANS CLOOS MEDAL FOR 2014

National Groups, members of the Executive Committee and Council,

The Hans Cloos Medal for 2014 will be presented on the occasion of the 12th Congress of the IAEG to be held over the period September 15 - 19, 2014 in Torino, Italy. This letter is a call for the nominations for the Hans Cloos Medal.

The Hans Cloos Medal, awarded biannually, is the senior award presented by the IAEG, given to an engineering geologist of outstanding merit in commemoration of the "Founder of Geomechanics". The recipient should therefore be a person of international repute who has made a major contribution to engineering geology in his/her written papers or to the development of engineering geology.

Candidates must be members of the IAEG. Nominations will normally be made by a National Group but members of the Executive Committee and Council may also propose individuals. Nominations should be sent to the Secretary General before 1 March, 2014 and shall include the following documents:

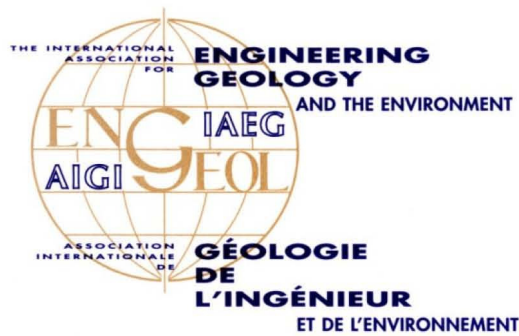
- a) A copy of the nominee's curriculum vitae;
- b) A list of publications, identifying the three most important papers;
- c) A statement of support for the nominee which should not be longer than two single spaced typed A4 pages.

The winner, selected by the Executive Committee, will be announced before **April 15, 2014**.

For more information please refer to the Bylaws of the IAEG at Part E. Awards and Prizes. We look forward to receiving your nominations.

Yours sincerely,

Professor Faquan Wu
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| | |
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| President: | Prof. Carlos Delgado |
| Past President: | Dr. Fred Baynes |
| Secretary General: | Prof. Wu Faquan. |
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| Africa: | Dr. John Stiff |
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| Australasia: | Dr. Ann Williams |
| Europe: | Prof. Atiye Tugrul |
| | Dr. Ian Jefferson |
| North America: | Dr. Réjean Couture |
| South America: | Dr. Silvina Andrea Marfil |

CALL FOR NOMINATIONS OF IAEG RICHARD WOLTERS PRIZE FOR 2014

All National Groups, the members of Executive Committee and the Council,

The next Richard Wolters Prize for 2014 will be presented by IAEG at the occasion of IAEG XII Congress (September 15-19, 2014, Torino, Italy). This letter is to call for the nominators of this Prize.

The Richard Wolters Prize has been awarded biannually since 1986 to commemorate the life and work of Dr Richard Wolters, his significant achievements in the advancement of engineering geology and his important role in the development of the IAEG. The Richard Wolters Prize specifically recognises meritorious scientific achievement by a younger member of the engineering geology profession. The candidates should be members of IAEG and less than 40 years of age on 1st January 2014 in which the award is to be made.

The Nominations for the candidates should be sent to the Secretary General before March 1, 2014 including the following documents:

- a) a copy of the nominee's curriculum vitae ;
- b) a list of publications, identifying the three most important papers ;
- c) a statement of support for the nominee which should not be longer than two single spaced typed A4 pages including confirmation that the candidate will attend the IAEG XII Congress in Torino 2014 where the Prize is to be contested.

Competition will be held during IAEG XII Congress (September 15-19, 2014, Torino, Italy).

For more information please refer to refer to Bylaws Part E. Awards and Prizes and the attached RWP procedure.

Best regards,

Faquan Wu

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Richard Wolters Prize 2014 – Procedure

Introduction

The procedure for award of the Richard Wolters Prize has been modified with the objective of attracting more young members of the engineering geology community to the IAEG and strengthening links between engineering geologists in industry and academia. Changes include a lowering of the maximum age of applicants to 35 on 1 January of the year of award. However as this change was only agreed at the Beijing meeting of Council in September 2013, applicants aged up to 40 on 1 January 2014 will be considered for the 2014 award.

Background

The Richard Wolters Prize has been awarded biannually since 1986 to commemorate the life and work of Dr Richard Wolters, his significant achievements in the advancement of engineering geology and his important role in the development of the IAEG.

Procedure for Richard Wolters Prize Candidates for 2014

The Richard Wolters Prize for 2014 will be administered in the following way:

1. Selection and nomination by each IAEG National Group of their favored candidate to contest the Richard Wolters Prize. The nominated engineering geologist must meet the age criteria (that is be less than 40 years of age on 1 January 2014). The nominating National Group must submit for evaluation a copy of the nominee's curriculum vitae; a list of publications (identifying the three most important papers); and a statement of support for the nominee which should not be longer than two single spaced typed A4 pages. The statement of support must include confirmation that the candidate will attend the 12th Congress of the IAEG to be held in Torino 2014, where the Prize is to be contested.
2. Nominations by the National Groups of their candidate for the Richard Wolters Prize must be in an official letter with all documentation including identification of the paper to be presented if they are shortlisted, to the IAEG Secretary General by **1 March 2014**. Where the candidate is from a country whose National Group is not active, then self-nomination to the IAEG Vice President representing their part of the world can be made.
3. If the number of nominations exceeds 10, then the Executive Committee of the IAEG will, before **1 April 2014**, make its selection of the 10 short-listed candidates.
4. The National Groups will, four months before the 12th Congress of the IAEG, be informed if their nominee is invited to present her/his paper at the Congress.
5. Submissions will be judged as follows: submitted publication 30 %; CV 10 %; Oral presentation 60 %.
6. Presentations by short-listed candidates will be made before a Jury at the 12th Congress of the IAEG (September 15 - 19, 2014, Torino, Italy). Allowance for presentations including response to questions is anticipated to be 15 minutes (10 minutes presentation and 5 minutes mandatory question session), but this may be extended according to the number of short-listed candidates and programme.

7. Selection of the winner of the Richard Wolters Prize and runner-up will be made by a jury appointed by the IAEG Executive Committee. The winner and runner-up will be announced at the Congress.

It is expected that the IAEG National Groups will support the travel costs, accommodation and student rate fee* for participation of their candidate at the Congress. National Groups from low income countries and National Groups with very small numbers of members can apply for partial financial support by the IAEG solidarity fund in a letter to the IAEG President.

* All Richard Wolters Prize candidates will be eligible for student registration rates.

Bylaws http://www.iaeg.info/Documents/Bylaws_2013.pdf

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## ONLINE SURVEYS

### ● The most concerned and hottest issues in Engineering Geology and Environment in 2014

To make clear the outlook of our discipline and design the development of engineering geology, the Secretariat has launched an online survey annually to collect the opinions on the most concerned and hottest issues in Engineering Geology and Environment every year. The online survey is easy. We just need to click the link and fill in the sheet:  
<https://www.surveymonkey.com/s/ZZTNV85>.

The deadline is **28 February 2014**. After statistics and analysis, the survey result will be published on our website and Newsletter and used to direct IAEG academic activity organization and commission setting up.

### ● Feed-back about Bulletin dispatch 2013

The secretariat has launched the "IAEG feed-back on Bulletin dispatch 2013" by online survey and we will record every response seriously and then contacted Springer to solve the problems. We hope online survey this year could attract and help more members.

Please follow the link: <https://www.surveymonkey.com/s/Z6YPY65>. The deadline is **28 February 2014**.

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BULLETIN COVER COLLECTION

It's appreciated that members are able to provide good quality photos suitable to our Bulletin cover by sending the original photos in big size, photos in small size for selection first or the hyperlink to download to iaegsg@163.com or martin.culshaw2@ntlworld.com.

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## NEWS FROM NATIONAL GROUPS

### ● China

News about the International Symposium & 9th Asian Regional Conference of IAEG, held in Beijing, China on 24th - 25th September, 2013, could be found in this Newsletter.

### ● Portugal

<http://www.spgeotecnia.pt/cpga/>

The current Board of the Portuguese Geotechnical Society (SPG), aware of the importance and current significance of environmental issues and sustainable development, is pleased to inform the IAEG that we have decided to create a new Commission, the Portuguese Environmental Geotechnics Commission (CPGA).

Following the approval of the CPGA Statutes in the SPG General Assembly on March 20th 2013, the CPGA Board will ensure, on behalf of the SPG, the connection to the Environmental Geotechnics Committees of IAEG, such as Commission 20 - Risk based contaminated land management and IAEG Commission 27 - Environmental aspects of construction materials.

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NEWS FROM COMMISSIONS

● C10-Building Stones & Ornamental Stones

EGU 2013 was a success for C10 and we have been invited to arrange another session in 2014.

About IAEG in Torino, most contributors (not all) have uploaded full papers for our stone session.

35th IGC, A session has been proposed and accepted as far as I know.

The Special publication in the GSL is advancing.

● C29-Structure & Behavior of Soil & Rock Mass

Report of workshop and working meeting of C29 on IAEG2013

Dr. Lilihui

General Secretary of C29

On Sept.24-25, 2013, a workshop and working meeting of Commission 29 were held during the international symposium & 9th Asia regional conference of IAEG. The details are described as following:

1 Workshop of C29

The workshop of C29 was held on Sept.25, 2013. Prof.Hu Ruilin and Prof.Anguelov are the chairs of the workshop. There are three invited speeches presented by Prof. Hu Ruilin, Prof. Anguelov and Prof.Harry Saroglou. The details can be seen in the table.

| Wednesday, September 25, 2013: IAEG2013 Symposium Workshop C29: Structure-behavior of Soil & Rock Mass | |
|---|---|
| Room 305DE, Chair: Ruilin Hu (China), Kiril Anguelov (Bulgaria) | |
| 10:20-10:50 | Ruilin Hu (China): Structural effects on mechanical properties of soil-rock mixtures |
| 10:50-11:20 | Kiril Anguelov (Bulgaria): Structural bonds in the Clays from Landslides |
| 11:20-11:50 | Harry Saroglou (Greece): Engineering geological behaviour of anisotropic and heterogeneous layered rocks |
| 11:50-12:10 | Chengzhi Qi (China): Reology property at different structural levels of rock mass |
| 12:10-12:30 | Chaosheng Tang (China): Microstructural analysis on the hydro-mechanical behaviour of compacted soil |
| 12:30-12:50 | Wenjie Xu (China): Biaxial compression numerical test of soil-rock mixture |

| | |
|-------------|--|
| 12:50-13:10 | Pavel A. Tsoy (Russia): Experimental study of the surface crack propagation for rock-disk specimens |
| 13:10-13:30 | Zhiqing Li (China): FEM application to loess slope excavation and support: Case study of Dong Loutian coal bunker, Shouzhou, China |



The chair of the workshop



Prof. Hu Ruilin gave a keynote speech

2 Working meeting of C29

The working meeting of C29 was held at 20:30-23:00, Sept. 24 2013 in Beijing, China. The core members (Prof. Shi Bin, Osipov, Chen Jianpin and Zhang Wei) and other about 30 researchers took part in the meeting and hot discussion.

The topic of the working meeting is the Future of C29. The chairperson Prof. Hu Ruilin gave a brief introduction of the commission 29 firstly. And then the two sessions. The 1st one is what is the tendency of research on structure and behavior of soil and rock mass; the second one is How to guide the international research activities by C29.



In the first session, there are 4 keynote speeches given by Prof. Osipov (Russia, core member of C29), Prof. Chen Jianping (China, core member of C29), Prof. Harry Saroglou (Greece, member of C29) and Prof. Tang Chaosheng (China, member of C29).

The title and the speaker are as following:

1. Theory of contacts interaction, presented by Prof. Victor Osipov;
2. 3D Network Structural Rock Mechanics—Connotation & Development, given by Prof. Chen Jianping;
3. International key research areas of structure and behavior of soil and rock mass, given by Prof. Harry Saroglou;
4. Mechanical behavior of discrete fiber reinforced soil: from Macro to micro, given by

Prof. Tang Chaosheng.

Prof. Osipov pointed out if we want to do better work of C29, we should input investigations on contacts interactions. The physico chemical mechanics of soil should be studied.

Prof. Chen Jianping gave some orientations of the structural rock mass mechanics as following:

1. Improvement of the discontinuities 3D network structural model-multiscale 3D geomechanical structural model.
2. To provide internal boundary condition for commercial computation software of discontinuities system deformation such as block theory, DDA, 3DEC.
3. To establish multiscale 3D geomechanical structural equivalent model for the application of Flac, finite element method.
4. Discontinuities surface roughening model study- fractal study on the basis of fluctuate and roughness of discontinuities surface in situ.



Prof. Harry Saroglou pointed out 3 key research areas as following:

1. Study of anisotropic rocks – rock masses
2. Application of modified H-B to anisotropic rock mass
3. Engineering behaviour of layered rocks
4. Effect of anisotropy,
5. Layer thickness,
6. Ratio of strength of competent/incompetent layers
7. Behavior of bimrocks
8. New techniques for volumetric characterization
9. Simple tools for characterization (soil/rock)
10. Examples from volcanic rocks

Prof. Tang Chaosheng gave some key research areas and developments of the structure of soil as following:

1. Characterizing the evolution of soil structure along coupled thermal-hydro-mechanical-chemical (THMC) paths.
2. Quantitative analysis of microstructure coupled with macroscopic measurements, which is a realistic and powerful course for understanding the engineering behaviour of soils, as well as in contributing to the generation of realistic hypotheses for homogenization techniques and for formulating multi-scale constitutive models.
3. To construct quantitative correlation between microstructural characteristics and macroscopic properties.
4. Further advances in microstructure investigation should lead to soil models that follow

- the evolution of structure changes to facilitate improved predictions of soil behaviour.
5. More rigorous integration between experimental microstructural data and microstructure level models (discrete element models, pore-network models, and so on).
 6. Development of new methods for field/natural soil structure characterization in different scales.
 7. Development of new methods for micro-mechanical parameter measurement (bonding strength between aggregates, interfacial shear strength between fiber/soil and so on).



Prof. Shi Bin pointed out that we should pay more attentions to the study of multi-scale of soil structures and apply more new technologies on the study. Research on soil mass structural system is a comprehensive and interdisciplinary fundamental work which is of great theoretical and practical significance. It covers the whole soil mass system from macroscopic soil distribution area down to microscopic particulates from the angle of length scale.

Prof. Wu Faquan, the general secretary of the IAEG, give some suggestions about how to operate the commission, and how to promote the productivity of the commission.

Finally, Prof. Hu Ruilin gave a closing address. He hoped that this meeting will be considered as a beginning and arouse more consideration after meeting so as to gradually form universal standpoints about structural research orientation in the future. He thanked for everyone's participating in this meeting and hoped everyone to keep paying attention on structural research and the activities of C29. Through the joint efforts of all, Prof. Hu believed the globe structural research will be accelerated and goes up to new level.

After the working meeting of C29, more than 30 scholars joined the commission.

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## MEETING INFORMATION

### ● **Austria**

#### **7th Colloquium Rock Mechanics**

<http://www.ig.tuwien.ac.at/>

7th Colloquium Rock Mechanics - Theory and Practice with "Vienna-Leopold-Müller Lecture" will be held on March 13th and 14th 2014 in Vienna.

### ● **Canada**

#### **6th Canadian GeoHazards Conference (GeoHazards 6)**

<http://www.geohazards6.ca>

The 6th Canadian GeoHazards Conference (GeoHazards 6) will be held by the Canadian Geotechnical Society (CGS) on June 15-18, 2014 at Queen's University in Kingston, Ontario, Canada. The GeoHazards conferences are the premiere forums in Canada for the sharing and dissemination of scientific and engineering knowledge related to geohazards.

Geohazards affect a broad spectrum of public and industrial interests in Canada. In many ways the risks posed by geohazards are increasing as we spend more time in hazardous places, and place more infrastructures there. The need to assess, mitigate, and communicate these risks is likewise becoming more relevant to more Canadians. GeoHazards 6 will include applied research reports and case studies related to a broad range of geohazards, and the risks they pose, with the goal of sharing ideas, approaches, and solutions to similar but unique engineering and scientific problems related to geohazards.

#### **International Conference on Discrete Fracture Network Engineering**

<http://www.dfne2014.ca>

DFNE 2014 will be held at the Sheraton Wall Centre in scenic downtown Vancouver, British Columbia, Canada from October 19 - 22, 2014. The DFNE 2014 organizing committee invites you to join us to share your ideas and experiences in the increased development and practical use of this technology under the theme Engineering Characterization of Fractured Rock Masses: Applications of Discrete Fracture Network Engineering.

The Vancouver rock mechanics community is pleased to host DFNE 2014, the 1st International Conference on Discrete Fracture Network Engineering. This conference will be the inaugural international meeting of engineers and geoscientists who use discrete fracture network engineering in the characterization of rock masses and solutions of engineering problems. This new and rapidly expanding area of engineering has wide applications, including underground and surface mining, underground nuclear waste disposal, petroleum geomechanics, civil engineering and natural hazards.

## ● India

### **International Conference on “Engineering Geology in the New Millennium” (EGNM 2015)**

[http://joegindia.com/Circular-%20ISEG\\_CBIP\\_Workshop\\_18%2010%2013.pdf](http://joegindia.com/Circular-%20ISEG_CBIP_Workshop_18%2010%2013.pdf)

As part of Golden Jubilee Celebrations of Indian Society of Engineering Geology (ISEG), ISEG is proposed to organize an International conference on “Engineering Geology in New Millennium” at New Delhi, India during October 27 to 29, 2015. Now the First Announcement is ready.

## ● Iran

### **1th International special conference on geosciences contemporary with 32th National annual conference on geosciences symposium**

<http://conference.gsi.ir>

The Geological Survey of Iran, in cooperation with the Earth Science Matters Foundation, organizes the First International Geosciences Conference in Iran, entitled "Geosciences and Politics, Economy & Culture in a Changing World". The International Conference will be held on 18 and 19 February 2014 in Tehran and is back-to-back to the 32nd National Geosciences Conference in Iran (16 and 17 February 2014)

## ● Korea

### **JTC-1's the first International Landslide Workshop**

JTC-1's the first International Landslide Workshop will be held in Seoul in November 2014 and Prof. Su-Gon Lee is the chairman of the organizing committee of the workshop. If colleague is interested in the workshop, please contact Prof. Su-Gon Lee: [sglee@uos.ac.kr](mailto:sglee@uos.ac.kr)

## ● New Zealand and Australia

### **12th Australia New Zealand Conference on Geomechanics (ANZ 2015)**

<http://www.anz2015.com>

The New Zealand Geotechnical Society and the Australian Geomechanics Society will hold the 12th Australia New Zealand Conference on Geomechanics (ANZ 2015 22-25 February 2015, Wellington, New Zealand) which is the regional conference of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) and is held approximately every 4 years. The conference theme is “The Changing Face of the Earth – Geomechanics & Human Influence”.

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