XV COLOMBIAN GEOTECHNICAL CONGRESS – XVCGC &
II INTERNATIONAL SPECIALIZED CONFERENCE ON SOFT ROCKS–II ISCSR
BULLETIN 2

INVITATION

The Colombian Geotechnical Society of is pleased to reiterate the invitation to national and regional geotechnical community to the XVCGC & II ISCSR. The Soft Rocks Conference has been organized in partnership with the Commission of Soft Rocks of the International Society for Rock Mechanics, under the auspices of this International Society. These events will be preceded by three (3) short courses of great geotechnical interest.

PLACE AND DATE

All the events will be held in the city of Cartagena, as follows: the three short courses in Hotel Corales de Indias on October 4th and the XVCGC & II ISCSR, at the Radisson Hotel during the days October 5th , 6th and 7th, 2016.

MAIN LECTURERS

As part of the technical program on development of the events, special lectures will be presented by Dr. Milton Assis Kanji , Professor at the Polytechnical School of the University of São Paulo; Dr Youssef Hashash , Professor at the University of Illinois (USA) ; Dr. Vaughan Griffiths Professor at Colorado School of Mines , USA and University of Newcastle, NSW; Dr He Manchao, Professor at China University of Mining and Technology, Beijing, China and Dr. Nick Barton, International consultant in geotechnics of tunnels.

MILTON ASSIS KANJI
PROFESSOR AT POLYTECHNICAL SCHOOL OF THE UNIVERSITY OF SÃO PAULO

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Milton Assis Kanji graduated as Geologist from the University of São Paulo, Brazil (1960). He got his M.Sc. degree in Engineering Geology and Geotechnics at the University of Illinois and his Ph.D. in Rock Mechanics at the University of São Paulo; he also got the post doctoral title of “Livre Docente” on Earth Works at the Polytechnical School of the University of São Paulo, where his Associate Professor at the Department of Structural Engineering and Geotechnics. He has worked with large engineering firms dedicated to geotechnical services and design. He was responsible for the basic design of the Itaitu Main Dam foundations, and the rocks mechanics and engineering geology related to the Agua Vermelha and Jaguara dams, among others. He has been involved in more than 50 dam sites. He performed or coordinated the design of 6 important Petrobras tunnels for gas pipelines, through the company Shaft Consultoria Ltda., of which is the Technical Director. Presently he works as an independent consultant, mainly involved with dam foundations, tunnels and slope stability. He has worked as expert witness in arbitrations for hydroelectric projects and tunnels, and as expert for insurance companies and loss adjusters. An ISRM Fellow, former Vice President for South America (1975-1979), he is presently Chairman of the Technical Commission on Soft Rocks.

YOUSSEF HASHASH
PROFESSOR AT UNIVERSITY OF ILLINOIS, USA

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Professor Youssef Hashash holds a B.S. (1987), an M.S. (1988) and a Ph.D. (1992) in civil engineering from the Massachusetts Institute of Technology. He began his career with the PB/MK TEAM in Dallas on the Superconducting Super Collider Project. In 1994 he joined Parsons Brinckerhoff in San Francisco and worked on a number of underground construction projects in the U.S. and Canada including the Boston Central Artery/Tunnel project.
Professor Hashash joined the faculty of the Department of Civil and Environmental Engineering at the University of Illinois at Urbana-Champaign in 1998. He taught courses in Geotechnical Engineering, Numerical Modeling in Geomechanics, Geotechnical Earthquake Engineering, Tunneling in Soil and Rock, and Excavation and Support Systems. His research focus includes deep excavations in urban areas, earthquake engineering, continuum and discrete element modeling and soil-structure interaction. He also works on geotechnical engineering applications of visualization, augmented reality, imaging and drone technologies in. He has published over 80 journal articles and is co-inventor on four patents. His research group developed the software program DEEPSOIL that is used worldwide for evaluation of soil response to earthquake shaking.
Professor Hashash is a Fellow of the American Society of Civil Engineers (ASCE) and has received a number of teaching, university and professional awards including the Presidential Early Career Award for Scientists and Engineers and the ASCE 2014 Peck medal.

VAUGHAN GRIFFITHS
PROFESSOR AT COLORADO SCHOOL OF MINES, USA
AND UNIVERSITY OF NEWCASTLE, NSW

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D. Vaughan Griffiths, Ph.D., D.Sc., P.E., D.GE., FICE, F.ASCE, completed a Master's degree at UC Berkeley and Doctoral degrees at the University of Manchester, UK. He was a Senior Lecturer at the University of Manchester, before moving to his current position as Professor of Civil Engineering at the Colorado School of Mines, USA, where his primary research interests lie in application of finite element and risk assessment methodologies in civil engineering. He has written over 300 research papers, including some of the most highly cited in the geotechnical engineering research literature. He is the co-author of three textbooks that have gone into multiple editions including the Chinese language, entitled "Programming the Finite Element Method",5th edition,

Wiley (2014), "Risk assessment in Geotechnical Engineering" Wiley (2008) and "Numerical Methods for Engineers", 2nd edition, Chapman & Hall/CRC (2006). He gives regular short-courses for practitioners on risk and finite element applications in geotechnical engineering, with courses already scheduled for 2016-17 in Canada, Australia, Columbia and Norway. Dr. Griffiths is a former ASCE Director and is currently an editor of Computers and Geotechnics, on the Advisory Panel of Géotechnique and on the Editorial Board of Georisk.

HE MANCHAO
PROFESSOR AT CHINA UNIVERSITY OF MINING AND TECHNOLOGY, BEIJING, CHINA

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He Manchao is currently an Academician in Chinese Academy of Sciences, Professor at China University of Mining and Technology, Beijing (CUMTB). He is also the Director of State Key Laboratory for Geomechanics and Deep Underground Engineering in Beijing, China. He is recognized as the leader of the Chinese Union for Mining Innovation (CUMI). And he served as the Vice President at Large of International Society for Rock Mechanics (ISRM), Chairman of ISRM Education Fund Committee, and President of ISRM Chinese National Group.
He received his Bachelor and Master Degree in engineering geology from Changchun College of Geology in 1981 and 1985 respectively, and obtained his Ph.D. in Engineering Mechanics from CUMTB in 1989. He got an Honorary Doctorate from University of Mons in Belgium in 2012. He mainly engaged in the research of Rock Mechanics and Engineering, including mining technologies, rockburst mechanism, landslide, active fault stability analysis, monitoring and control, etc. He has published 4 books and over 190 papers in technical journals and in conference proceedings. He also serves on the Editorial Board of several Journals, and received 5 National Prizes and awards in his career.

NICK BARTON
INTERNATIONAL ROCK ENGINEERING CONSULTANT
nick barton & associates in oslo.

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Dr. Nick Barton was educated in the University of London from 1963 to 1970, and has a B.Sc. in civil engineering from King's College, and a Ph.D. on rock slope stability from Imperial College. He worked for two periods in the Norwegian Geotechnical Institute, Oslo, eventually as Division Director, then Technical Advisor, and was also four years in the USA, becoming Manager of

Geomechanics in TerraTek, now Schlumberger. Since 2000 he has had his own international rock engineering consultancy, registered as Nick Barton & Associates in Oslo, and also has an office in São Paulo. He has consulted on several hundred projects in a total of 35 countries, and has published widely (300 papers, and two text books, one on TBM tunnelling). He developed the Q-system, which was updated together with Grimstad, and is co-developer of the Barton-Bandis joint coupled-behaviour (M-H) model, coded in UDEC-BB. He has also developed Q_{TBM} and more recently Q_{slope} for helping to select maintenance and support-free slope angles for rock cuttings and bench-faces in open pits, including slopes in weak rock and saprolite. He has ten international awards including election as Doctor Honoris Causa (Honorary Doctor) in Argentina. He gave the 6th Mueller Award Lecture of ISRM, in the Beijing ISRM Congress in 2011. This is awarded once every four years for contributions to rock mechanics and rock engineering.

TECHNICAL PROGRAM

TUESDAY, OCTOBER 4TH
PREVIOUS SHORT COURSES

Course No 1 Professor Youssef Hashash
Linear and Non - linear Site Response Analysis

Course No 2 Professor Vaughan Griffiths
Quantitative Risk Assessment in Geotechnical Engineering

Course No 3 Dr Nick Barton
Empirical Methods and Rock Mechanics for Tunnels and Slopes in Jointed , Faulted , Weak and Weathered Rock Masses

Each course will be held from 8:30. to 12:30 and from 14:00 to 18:00 .and will have simultaneous translation service.

LECTURES, PAPERS AND SESSIONS XV CGC & II ISCSR

For these events the presentation of 186 papers, 125 of them in the Colombian Congress of Geotechnics and 61 at the International Conference on Soft Rocks, is planned.

The program includes four (4) technical sessions in the XVCCG and three (3) in the IICIERB with application to road projects and other infrastructure and development projects. There will be simultaneous translation.

MEETING OF THE COMMITTEE ON SOFT ROCKS- ISRM

The meeting of the Commission on Soft Rocks ISRM will take place on October 4 at 4 pm.

According to the topics, the work sessions have been distributed as follows:

XV COLOMBIAN GEOTECHNICAL CONGRESS- XVCGC

WEDNESDAY, OCTOBER 5TH

Time	**Activity**
8:00 – 9:00	Registration
9:00 - 9:30	Opening Session
9:30 - 10:30	**Second Conference Juan Montero Olarte**
	Stability of dams and slopes conditioned by **MILTON ASSIS KANJI**

	geological and geotechnicals aspects
10:30 - 10:45	Coffee break
SESSION 1:	**Characterization, Behavior and Improvement of Soils**
10:45 - 12:00	Presentation of papers and discussion
12:00 - 14:00	Break for lunch
14:00 - 15:00	Main Lecture
	Innovations in Modeling and Monitoring Technologies for Response of Deep Urban Excavations **YOUSSEF HASHASH**
15:00 - 16:15	Presentation of papers and discussion
16:15 - 16:30	Coffee break
16:30 - 18:00	Presentation of papers and discussion

THURSDAY, OCTOBER 6TH

8:00 - 9:00	Main Lecture
	Load and resistance factors, factors of safety and probability in geotechnical engineering. **VAUGHAN GRIFFITHS**
SESSION 2	**Natural hazards and risk management**
9:00 - 10:15	Presentation of papers and discussion
10:15 - 10:30	Coffee break
SESSION 3:	**Surface excavations and slopes in soils & embankments and other geostructures.**
10:30 - 12:00	Presentation of papers and discussion
12:00 - 14:00	Break for lunch
SESSION 4:	**Foundations and tunnels in soils & Geotechnical software applications**
14:00 - 15:15	Presentation of papers and discussion
15:15 - 15:30	Coffee break

II INTERNATIONAL SPECIALIZED CONFERENCE ON SOFT ROCKS – II ISCSR

15:30 - 16:30	**Opening conference:** ***Latest progress on Chinese soft rock engineering geomechanics*** ***HE MANCHAO***
SESSION 5	**Characterization and general behavior of soft rocks**
16:30 - 18:00	Presentation of papers and discussion
SESSION 5A -	**Special Parallel Session on the Earthquake In Ecuador**
16:30 - 18:00	Presentation of papers and discussion & Lessons learned from the earthquake in Ecuador –Dr Xavier Vera (Ecuador) and Colombian Geotecnical Society.

FRIDAY, OCTOBER 7TH

SESSION 6:	**Slopes and surface works in soft rocks**
8:00 - 9:00	Main Lecture
	A new prediction method for geo-disaster based on double block mechanics ***HE-MANCHAO***
9:00 - 10:15	Presentation of papers and discussion
10:15 - 10:30	Coffee break
10:30 - 12:00	Presentation of papers and discussion
12:00 - 14:00	Break for lunch

SESSION 7	Characterization and behavior of soft rock mass ; Excavations and underground works in soft rocks
14:00 - 15:00	Main Lecture ***'Cavern, tunnel and slope failures due to adverse geology'***. **NICK BARTON**
15:00 - 15:15	Coffee break
15.15 - 17:00	Presentation of papers and discussion&
17:00 - 18:00	**CLOSING SESSION**

PUBLICATIONS

All the abstracts of accepted papers will be published in a volume and the accepted papers will be included in a USB memory stick

TECHNICAL EXHIBITION

There will be an exhibition of equipment and software with stands available, with sizes 4 x 2 m , 3 x 2 m and 2 x 2 m. and cost of US$ 3.300, US$ 2.100 and US$ 1.530 respectively

SOCIO-CULTURAL PROGRAM

There will be an opening cocktail events on October 5th at 18 hours, a cultural event on October 6th at 18 horas and a closing dinner (optional) on October 7th at 20 horas.

REGISTRATION COSTS: SHORT COURSES (1US$ = COP $3000)

Professionals in general	US $280 COP $ 840.000
SCG Members and teachers	US $230 COP $ 690.000
Undergraduate and graduate students accredited as such	US $140 COP $420.000

REGISTRATION COSTS: XV CGC & II ISCSR (1US$ = COP $3000)

Professionals in general and other participants	US 415 COP $1´245.000
SCG members and corresponding ISRM , ISSMGE , IAEG members; Members of the Commission on soft rocks , ISRM delegates; academicians.	US 350 COP $ 1´050.000
Undergraduate and graduate students accredited as such	US 140 COP $ 420.000

EARLY REGISTRATION WITH 10 % DISCOUNT, BEFORE AUGUST 31st , 2016

SHORT COURSES

Professionals in general	US$250 COP $ 750.000
SCG members and teachers	US$205 COP $ 615.000
Undergraduate and graduate students accredited as such	US$125 COP $ 375.000

XVCCG&IICIERB

Professionals in general and other participants	US 370 COP $ 1’110.000
SCG members and corresponding ISRM , ISSMGE , IAEG members; Members of the Commission on soft rocks , ISRM delegates; academicians.	US 315 COP $ 945.000
Undergraduate and graduate students accredited as such	US 125 COP $ 375.000

HOTEL RATES

HOTEL GHL RELAX CORALES DE INDIAS (4 stars)

ROOM	DAILY RATE	
Single standard	$260.200	USD 82
Double standard	$265.200	USD 84
Additional person	$103.600	USD 35

RADISSON CARTAGENA OCEAN PAVILLION HOTEL (5 stars)

ROOM	DAILY RATE	
Single superior	$378.100	USD 180
Double superior	$408.200	USD 185
Additional person	$111.300	USD 50

MORROS APARTAMENTS

APARTMENT	DAILY RATE	
Two room apartments with bathroom and queen size bed in each room. Double bed-sofas in social areas, social bathroom, kitchen and fridge Maximum six (6) persons in an apartment	$484.880	USD 160

Located in the Morros zones, in different buildings, like Morros Vitri and Seaway 935 buildings

ACOMMODATION INFORMATION

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MAIN SPONSORS

Colombian Geotechnical Society - SCG
International Society for Rock Mechanics-ISRM
Comission on Soft Rocks- ISRM
Institutional Support Committee

ORGANIZING COMMITTEE

President of CGS: Edgar Rodríguez Granados
Director of Events: Juan Montero Olarte
Operations Committee: Edgar Rodríguez Granados; Juan Montero Olarte
Technical Committee: Adolfo Alarcón Guzmán; Álvaro J. González García

INTERNATIONAL ADVISORY COMMITTEE- II ISCSR

Dr. Milton Kanji – Chairman of the CSR-ISRM
Dr. He Manchao – ViceChairman of the CSR-ISRM
Dr. Sergio Fontoura – VicePresident for South America-ISRM
Dr. Eda F. Quadros- President of ISRM

ISRM LOCAL TECHNICAL ADVISOR**:** Mario Camilo Torres Suárez

CONTACT:

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