ISRM

International Society for Rock Mechanics

A glimpse into the 55 years of the ISRM, 1962–2017, with a focus on France

Luís Lamas, ISRM Secretary General

CFMR

Jubilé du Comité Français de Mécanique des Roches

Paris, 14 Septembre 2017

Preparations for the foundation

Original intention of Leopold Müller

To create the "International Society for Geomechanics", as the transformation of the "International Study Group for Geomechanics" (the "Salzburger Kreis"), founded in 1951, which promoted the Geomechanics Colloquies—the oldest series of international conferences in rock mechanics.

Correspondence between Laurits Bjerrum (ISSMFE VP) and Leopold Müller

(Bjerrum, 28 February 1962) *"I had correspondence with Professors Terzaghi, Casagrande and Skempton on the question whether Rock Mechanics shall be adopted into our Society and an attempt be made to merge the existing Rock Mechanics organizations into our International Society.*

I was personally against a merging, and Professor Terzaghi agreed with me.

Professor Casagrande has now taken the decision that no attempt should be made to have Rock Mechanics organizations merged into our Society, but he leaves the question open for a possible cooperation in a joint international society of the two groups of people."

Preparations for the foundation

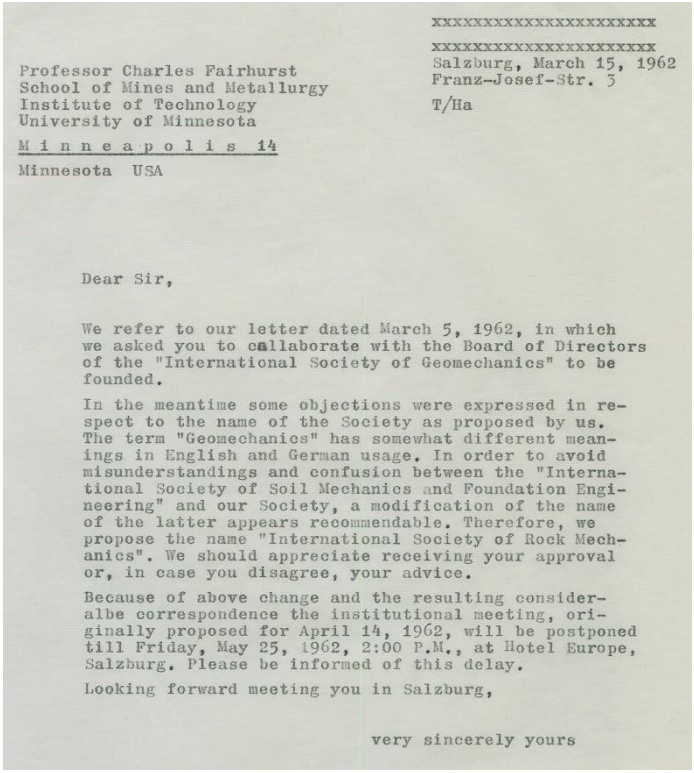
Correspondence between Laurits Bjerrum (ISSMFE VP) and Leopold Müller

(Bjerrum, 10 March 1962) *"With the name proposed "International Society for Geomechanics" the society covers exactly the same field as our existing international society for soil mechanics.*

I am thus only able to accept your invitation under the very condition that the name of the society will be changed."

(Müller, 14 March 1962) *"I propose to name Salzburg Group International Society of Rock Mechanics".*

(Bjerrum, 20 March 1962) *"I am satisfied with your proposal for the change of the name of the society and the name has been approved by Terzaghi with whom I have discussed the matter."*



xxxxxxxxxxxxxxxxxxxxx

xxxxxxxxxxxxxxxxxxxxx
Salzburg, March 15, 1962
Franz-Josef-Str. 5

T/Ha

Professor Charles Fairhurst
School of Mines and Metallurgy
Institute of Technology
University of Minnesota
Minneapolis 14
Minnesota USA

Dear Sir,

We refer to our letter dated March 5, 1962, in which we asked you to collaborate with the Board of Directors of the "International Society of Geomechanics" to be founded.

In the meantime some objections were expressed in respect to the name of the Society as proposed by us. The term "Geomechanics" has somewhat different meanings in English and German usage. In order to avoid misunderstandings and confusion between the "International Society of Soil Mechanics and Foundation Engineering" and our Society, a modification of the name of the latter appears recommendable. Therefore, we propose the name "International Society of Rock Mechanics". We should appreciate receiving your approval or, in case you disagree, your advice.

Because of above change and the resulting considerable correspondence the institutional meeting, originally proposed for April 14, 1962, will be postponed till Friday, May 25, 1962, 2:00 P.M., at Hotel Europe, Salzburg. Please be informed of this delay.

Looking forward meeting you in Salzburg,

very sincerely yours

Müller's letter to Charles Fairhurst about the new name and the constitutional meeting

Foundation on 25 May 1962

ISRM International Society for Rock Mechanics

Constitutional meeting

Radio interview of L. Müller and F. Pacher

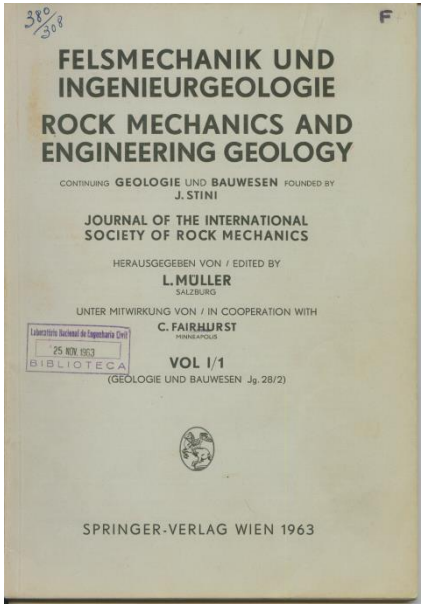
Reporter: "*International Society for Rock Mechanics, What is Rock Mechanics?*"

Pacher: "*The scientific discipline that studies the response of jointed rock when subject to forces.*"

Reporter: "*Do we know the strength of rock?*"

Müller: "*For rock specimens, tested in the laboratory, yes. For a rock mass, no. This is what we need to determine.*
This is why we need an International Society for Rock Mechanics."

Leopold Müller



1st Congress, Lisbon, 1966

ISRM
International Society for Rock Mechanics

Major milestone in the establishment of the ISRM

- Attended by 814 delegates from 40 countries, with 214 papers.
- The ISRM Secretariat was set up for the Congress and remained in Lisbon, at the LNEC, until today.

Manuel Rocha

1st Congress, Lisbon, 1966

85 participants from France

ISRM International Society for Rock Mechanics

1st Congress, Lisbon, 1966

85 participants from France

ISRM International Society for Rock Mechanics

LEVRET,
29-33, Rue de la Fédération
Boite Postale 510
Paris XV - FRANCE

LINNIKOFF, Nicolas
Ingénieur
6, rue Alcide Delapierre
92, Chaville - FRANCE

LOEB, Julien
Ing. Conseil
C. G. G. 96, Avenue Verdier
92, Montrouge - FRANCE

LONDE, Pierre
Ing. Directeur technique
19, rue Alphonse de Neuville
75 Paris (17eme) - FRANCE

LOUBATON, Maurice
Directeur Adjoint à
l'Electricité de France
Paris 8eme - FRANCE

LUNSKI, Simon
Ing. Géologue
137 Fb. Maché
73, Chambery - FRANCE

MALCOR, René
Ing.
2b. Square Henry Pate
Paris 16eme - FRANCE

MARCHAND, Philippe
Ing. - Conseil
Residence du Pentajour
Pietranera Bastia (Corse)
FRANCE

MARY, Marcel René
Inspecteur Général
d'Electricité de France
3, rue de Messine
Paris 8eme - FRANCE

MAURY, Vincent
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Bellevue 92 - FRANCE

MAYER, Armand
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MENARD, Louis
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Anthony 92
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des Sciences
Directeur Ecole Nationale
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TOURET, Jacques
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Ingénieur
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Villemomble
(Seine) - FRANCE

WACK, Bernard
Ing. Doc.
44, Av Félix-Viallet
Grenoble - FRANCE

What have we done 1962—1974?

ISRM International Society for Rock Mechanics

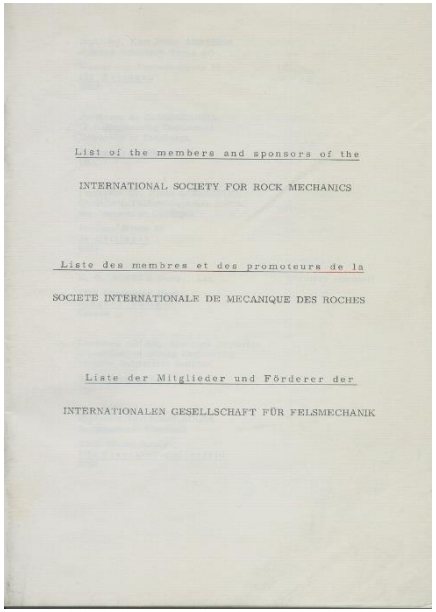
Organization of the Society in 1966—1967

- The Statutes and By-laws were approved
- The ISRM changed from a Society of individuals to one of National Groups.
- The constitution of the Board and the position of Secretary General were approved.
- The Commissions were created. Eight started their work.
- The ISRM started sponsoring symposia organised by the National Groups.
- Launch of the "News".
- The original Group of Salzburg had now become a strong International Society.

Leopold Müller
1st President, 1962—1966

Manuel Rocha
2nd President, 1966—1970

Leonard Obert
3rd President, 1970—1974



List of the members and sponsors of the

INTERNATIONAL SOCIETY FOR ROCK MECHANICS

Liste des membres et des promoteurs de la

SOCIETE INTERNATIONALE DE MECANIQUE DES ROCHES

Liste der Mitglieder und Förderer der

INTERNATIONALEN GESELLSCHAFT FÜR FELSMECHANIK

International Society
for Rock Mechanics

Statutes

Approved by the Council on the 24th October 1967

Société Internationale
de Mécanique des Roches

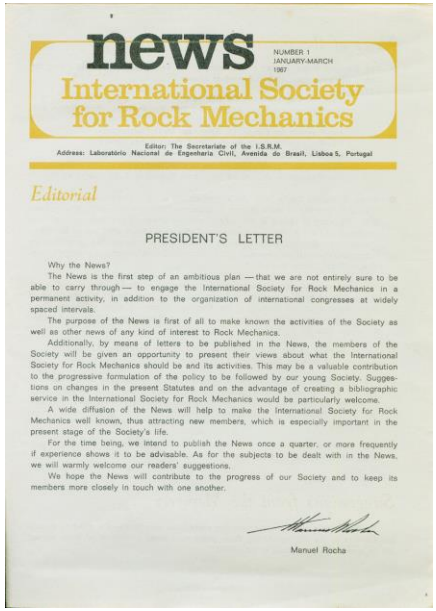
Statuts

Approuvés par le Conseil au 24 octobre 1967

Internationale Gesellschaft
für Felsmechanik

Statuten

vom Vorstand am 24. Oktober 1967 genehmigt



news
NUMBER 1
JANUARY-MARCH
1967

International Society
for Rock Mechanics

Editor: The Secretariate of the I.S.R.M.
Address: Laboratório Nacional de Engenharia Civil, Avenida do Brasil, Lisboa 5, Portugal

Editorial

PRESIDENT'S LETTER

Why the News?

The News is the first step of an ambitious plan — that we are not entirely sure to be able to carry through — to engage the International Society for Rock Mechanics in a permanent activity, in addition to the organization of international congresses at widely spaced intervals.

The purpose of the News is first of all to make known the activities of the Society as well as other news of any kind of interest to Rock Mechanics.

Additionally, by means of letters to be published in the News, the members of the Society will be given an opportunity to present their views about what the International Society for Rock Mechanics should be and its activities. This may be a valuable contribution to the progressive formulation of the policy to be followed by our young Society. Suggestions on changes in the present Statutes and on the advantage of creating a bibliographic service in the International Society for Rock Mechanics would be particularly welcome.

A wide diffusion of the News will help to make the International Society for Rock Mechanics well known, thus attracting new members, which is especially important in the present stage of the Society's life.

For the time being, we intend to publish the News once a quarter, or more frequently if experience shows it to be advisable. As for the subjects to be dealt with in the News, we will warmly welcome our readers' suggestions.

We hope the News will contribute to the progress of our Society and to keep its members more closely in touch with one another.

Manuel Rocha

What have we done 1962—1974?

1967 - Foundation of the **CFMR,**
the ISRM National Group of France

Leopold Müller
1st President, 1962—1966

Manuel Rocha
2nd President, 1966—1970

Leonard Obert
3rd President, 1970—1974

What have we done 1962—1974?

Commissions started 1967–1970

- Definition of the most Promising Lines of Research
- Recommendations on Site Investigation Techniques
- Terminology, Symbols, and Graphic Representation
- Testing Methods

Commissions started 1970–1974

- Behaviour of Tunnels and other Permanent Openings
- Classification of Rocks and Rock Masses
- Publication and Translation
- Teaching of Rock Mechanics

Main technical concerns (in Congresses and Commissions)

- Properties of rocks and rock masses
- Geological site characterization
- Mines
- Dams
- Underground excavations

Leopold Müller
1st President, 1962—1966

Manuel Rocha
2nd President, 1966—1970

Leonard Obert
3rd President, 1970—1974

What have we done 1962—1974?

Leopold Müller
1st President, 1962—1966

1967–1981 - Commission on Definition of most Promising Lines of Research
Chairman: **Pierre Habib**

Manuel Rocha
2nd President, 1966—1970

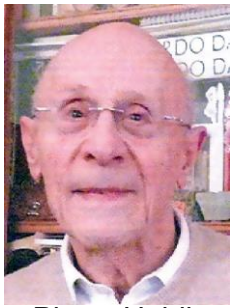
1971 - ISRM International Symposium, **Nancy**
"Rock Fracture"
Editor: René Houpert

Leonard Obert
3rd President, 1970—1974

What have we done 1974—1987?

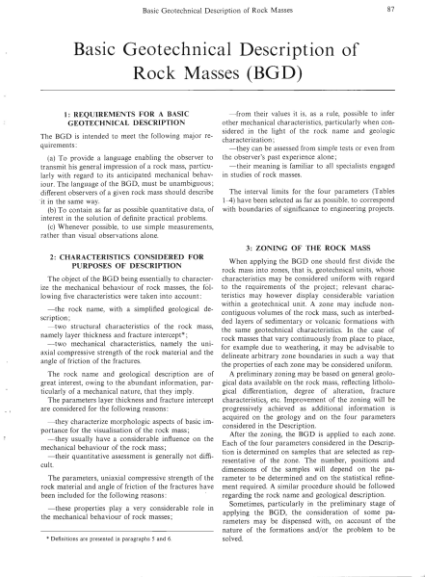
New Commissions in this period

- Computer Programs
- Research
- Revision of Statutes
- Swelling Rocks
- Case Histories
- Design of High Slopes in Mining
- Rock Boreability, Cuttability and Drillability
- Rock Failure Mechanisms
- Interpretation of Hydraulic Fracturing Records
- Rock Failure Mechanisms in Underground Openings



Pierre Habib
4th President, 1974—1979

Publication of ISRM Suggested Methods and launch of the Yellow Book, 1981 (Ed. E.T. Brown)



Basic Geotechnical Description of Rock Masses 87

Basic Geotechnical Description of Rock Masses (BGD)

1: REQUIREMENTS FOR A BASIC GEOTECHNICAL DESCRIPTION

The BGD is intended to meet the following major requirements:

(a) To provide a language enabling the observer to transmit his general impression of a rock mass, particularly with regard to its anticipated mechanical behaviour. The language of the BGD, must be unambiguous; different observers of a given rock mass should describe it in the same way.

(b) To contain as far as possible quantitative data, of interest in the solution of definite practical problems.

(c) Whenever possible, to use simple measurements, rather than visual observations alone.

2: CHARACTERISTICS CONSIDERED FOR PURPOSES OF DESCRIPTION

The object of the BGD being essentially to characterize the mechanical behaviour of rock masses, the following five characteristics were taken into account:

—the rock name, with a simplified geological description;

—two structural characteristics of the rock mass, namely layer thickness and fracture intercept*;

—two mechanical characteristics, namely the uniaxial compressive strength of the rock material and the angle of friction of the fractures.

The rock name and geological description are of great interest, owing to the abundant information, particularly of a mechanical nature, that they imply.

The parameters layer thickness and fracture intercept are considered for the following reasons:

—they characterize morphologic aspects of basic importance for the visualisation of the rock mass;

—they usually have a considerable influence on the mechanical behaviour of the rock mass;

—their quantitative assessment is generally not difficult.

The parameters, uniaxial compressive strength of the rock material and angle of friction of the fractures have been included for the following reasons:

—these properties play a very considerable role in the mechanical behaviour of rock masses;

—from their values it is, as a rule, possible to infer other mechanical characteristics, particularly when considered in the light of the rock name and geologic characterization;

—they can be assessed from simple tests or even from the observer's past experience alone;

—their meaning is familiar to all specialists engaged in studies of rock masses.

The interval limits for the four parameters (Tables 1-4) have been selected as far as possible, to correspond with boundaries of significance to engineering projects.

3: ZONING OF THE ROCK MASS

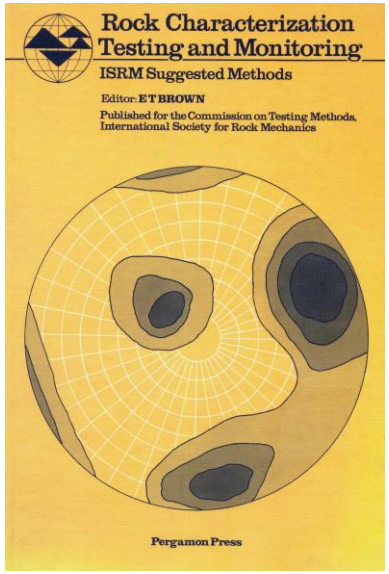
When applying the BGD one should first divide the rock mass into zones, that is, geotechnical units, whose characteristics may be considered uniform with regard to the requirements of the project; relevant characteristics may however display considerable variation within a geotechnical unit. A zone may include non-contiguous volumes of the rock mass, such as interbedded layers of sedimentary or volcanic formations with the same geotechnical characteristics. In the case of rock masses that vary continuously from place to place, for example due to weathering, it may be advisable to delineate arbitrary zone boundaries in such a way that the properties of each zone may be considered uniform.

A preliminary zoning may be based on general geological data available on the rock mass, reflecting lithological differentiation, degree of alteration, fracture characteristics, etc. Improvement of the zoning will be progressively achieved as additional information is acquired on the geology and on the four parameters considered in the Description.

After the zoning, the BGD is applied to each zone. Each of the four parameters considered in the Description is determined on samples that are selected as representative of the zone. The number, positions and dimensions of the samples will depend on the parameter to be determined and on the statistical refinement required. A similar procedure should be followed regarding the rock name and geological description.

Sometimes, particularly in the preliminary stage of applying the BGD, the consideration of some parameters may be dispensed with, on account of the nature of the formations and/or the problem to be solved.

* Definitions are presented in paragraphs 5 and 6.



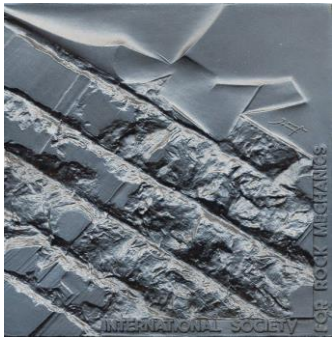
Walter Wittke
5th President, 1979—1983

Edwin T. Brown
6th President, 1983—1987

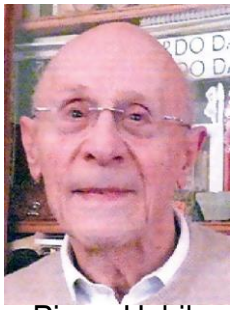
What have we done 1974—1987?

ISRM International Society for Rock Mechanics

Institution of the Rocha Medal in 1982 for an outstanding PhD thesis



1982	A.P. Cunha	PORTUGAL	2000	P. Cosenza	FRANCE
1983	S. Bandis	GREECE	2001	D.F. Malan	SOUTH AFRICA
1984	B. Amadei	FRANCE	2002	M.S. Diederichs	CANADA
1985	P.M. Dight	AUSTRALIA	2003	L. M. Andersen	SOUTH AFRICA
1986	W. Purrer	AUSTRIA	2004	G. Grasselli	ITALY
1987	D. Elsworth	UK	2005	M. Hildyard	UK
1988	S. Gentier	FRANCE	2006	D. Ask	SWEDEN
1989	B. Fröhlich	GERMANY	2007	H. Yasuhara	JAPAN
1990	R.K. Brummer	SOUTH AFRICA	2008	Z.Z. Liang	CHINA
1991	T.H. Kleine	AUSTRALIA	2009	G. Li	CHINA
1992	A. Ghosh	INDIA	2010	J.C. Andersson	SWEDEN
1993	O. Reyes W.	PHILIPPINES	2011	D. Park	REP. OF KOREA
1994	S. Akutagawa	JAPAN	2012	M.T. Zandarin	ARGENTINA
1995	C. Derek Martin	CANADA	2013	M. Pierce	CANADA
1996	M.P. Board	USA	2014	M.S.A. Perera	AUSTRALIA
1997	M. Brudy	GERMANY	2015	A. L. Bradley	ITALY
1998	F. Mac Gregor	AUSTRALIA	2016	C.W. Boon	MALAYSIA
1999	A. Daehnke	SOUTH AFRICA	2017	Bryan Tatone	CANADA



Pierre Habib
4th President, 1974—1979

Walter Wittke
5th President, 1979—1983

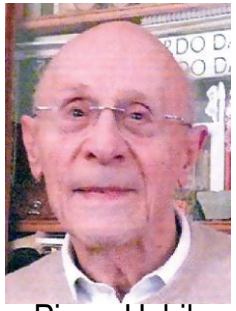
Ted Brown
6th President, 1983—1987

Main technical concerns (in Congresses and Commissions)

- Underground works (long tunnels, large caverns, mechanised excavation)
- Numerical methods
- Beginning of the interest on environmental issues

What have we done 1974—1987?

ISRM International Society for Rock Mechanics



Pierre Habib
4th President, 1974—1979

1974–1979 - Commission on Revision of Statutes
Chairman: **Pierre Duffaut**

Walter Wittke
5th President, 1979—1983

1981–1991 - Commission on Failure Mechanisms in Underground Openings
Chairman: **Vincent Maury**

Ted Brown
6th President, 1983—1987

What have we done 1987—1999?

Institution of the Müller Award in 1989

Bestowed in recognition of distinguished contributions to the profession of rock mechanics and rock engineering.

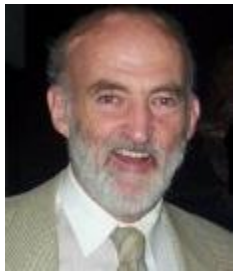
1991 – Evert Hoek
1995 – Neville Cook
1999 – Herbert Einstein
2003 – Charles Fairhurst
2007 – Edwin T. Brown
2011 – Nicholas Barton
2015 – John Hudson

The "News Journal" replaced the "News" in 1992

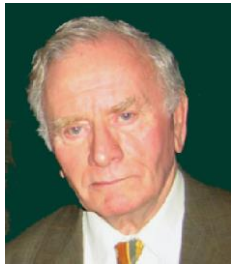
The ISRM News Journal is a new venture intended to promote communication and awareness among ISRM members and, indeed, anyone interested in rock mechanics.
(From the editorial of the first issue by Charles Fairhurst)

Revision of the Statutes

- Creation of the Regional Symposia.
- Creation of the positions of Vice President at Large.



John Franklin
7th President, 1987—1991



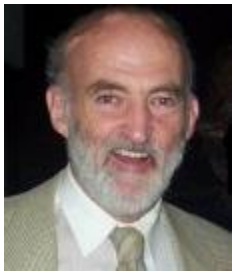
Charles Fairhurst
8th President, 1991—1995

Shunsuke Sakurai
9th President, 1995—1999

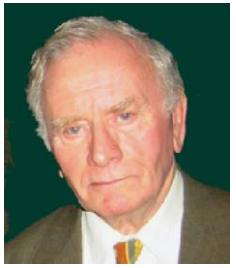
What have we done 1987—1999?

ISRM
International Society for Rock Mechanics

1987–1991 - ISRM Vice President for Europe
Marc Panet



John Franklin
7th President, 1987—1991



Charles Fairhurst
8th President, 1991—1995

Shunsuke Sakurai
9th President, 1995—1999

What have we done 1987—1999?

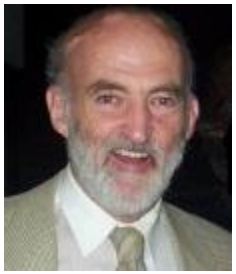
ISRM International Society for Rock Mechanics

New Commissions in this period

- Communications
- Education
- Petroleum Engineering
- Rock Grouting
- Rock Joints
- Rock Slope Stability
- Squeezing Rocks in Tunnels
- Rock Fragmentation by Blasting
- Rock Properties for Petroleum Engineering
- Scale Effects in Rock Mechanics
- Tectonic Stability and Site Selection
- Rockbursts in Hard Rock Situations
- Application of Geophysics to Rock Engineering
- Preservation of Natural Stone Monuments

Main technical concerns (in Congresses and Commissions)

- Environmental issues gain great relevance
- Underground works (e.g. for nuclear waste)
- Numerical methods
- Risk assessment
- Petroleum geomechanics
- Stone monuments
- Slope stability



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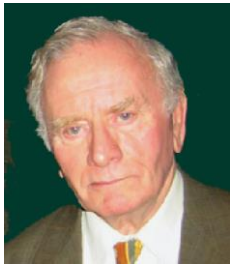
7th President, 1987—1991



Charles Fairhurst
8th President, 1991—1995

Shunsuke Sakurai
9th President, 1995—1999

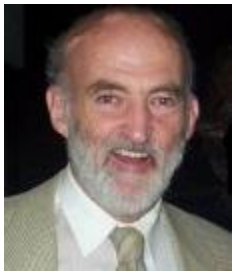
What have we done 1987—1999?

1989 - ISRM International Symposium, **Pau**
"Rock at Great Depth"
Editors: V. Maury, D. Fourmaintraux

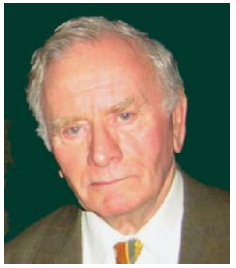
1989–1995 - Commission on Rock Properties for Petroleum Engineering
Chairman: **Vincent Maury**

1989–1995 - Commission on Petroleum Engineering
Chairman: **Frédéric Santarelli**

1999 – 9th ISRM Congress, Paris
Editors: Gérard Vouille, Pierre Bérest



John Franklin
7th President, 1987—1991



Charles Fairhurst
8th President, 1991—1995

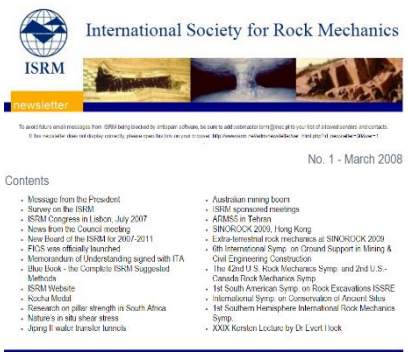
Shunsuke Sakurai
9th President, 1995—1999

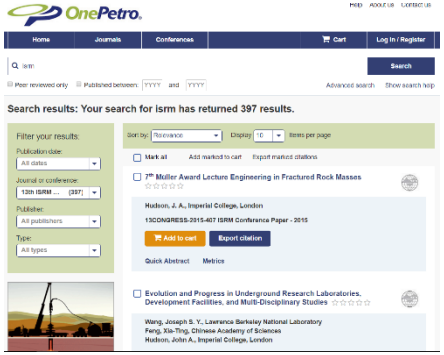
What have we done 1999—2011?

International Society for Rock Mechanics

Digital communication and spread of information

- Website, launched in 2005: main source of information about the Society.
- Quarterly Newsletter, launched in 2008: news and updated information.
- Digital Library, launched in 2010: proceedings of ISRM conferences.
- News Journal distributed electronically to all members.



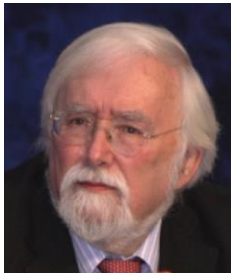


Marc Panet
10th President, 1999—2003

Nielen van der Merwe
11th President, 2003—2007

Establishment of "ISRM Fellows" in 2011

To acknowledge select individuals who have achieved outstanding accomplishments, and have contributed to the community through the ISRM.



John Hudson
12th President, 2007—2011

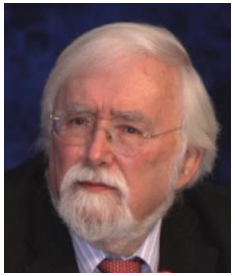
What have we done 1999—2011?

ISRM International Society for Rock Mechanics

ISRM Fellows
2011 - Pierre Habib, Marc Panet

Marc Panet
10th President, 1999—2003

Nielen van der Merwe
11th President, 2003—2007



John Hudson
12th President, 2007—2011

What have we done 1999—2011?

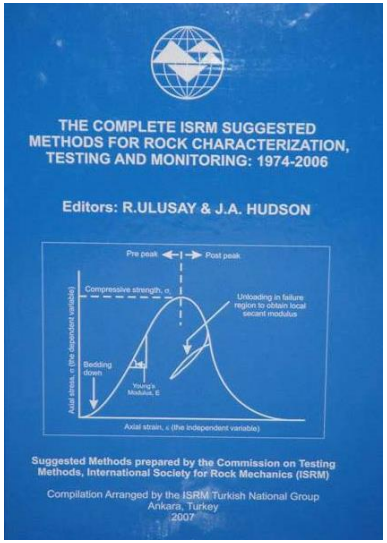
ISRM International Society for Rock Mechanics

New Commissions in this period

- Case Histories in Rock Engineering
- Environment
- Information Technology
- Maintenance and Repair of Underground Structures in Rock Masses
- Mine Closure
- Preservation of Ancient Sites
- Radioactive Waste Disposal
- Rock Dynamics
- Rock Engineering Design Methodology
- Spalling Prediction

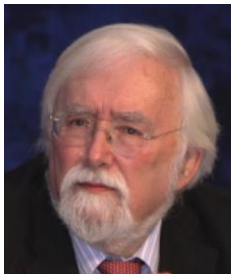
The Blue Book in 2007

(Ed. R. Ulusay, J.A. Hudson)



Marc Panet
10th President, 1999—2003

Nielen van der Merwe
11th President, 2003—2007



John Hudson
12th President, 2007—2011

Main technical concerns (in Congresses and Commissions)

- Renewed interest in properties of rocks and rock masses
- Underground works
- Numerical methods, especially large and complex applications
- Risk assessment
- Rock dynamics

What have we done 1999—2011?

ISRM
International Society for Rock Mechanics

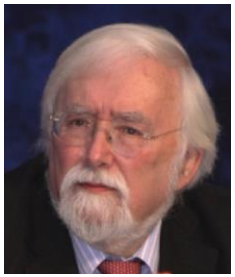
2001 - ISRM Regional Symposium, **Paris**
First Albert Caquot International Conference
"Modelling and Simulation in Civil Engineering"

2003 - ISRM Regional Symposium, **Nancy**
"Post Mining 2003: Impacts and Risk Management"

2004–2011 - Commission on Mine Closure
Chairman: **Christophe Didier**

Marc Panet
10th President, 1999—2003

Nielen van der Merwe
11th President, 2003—2007



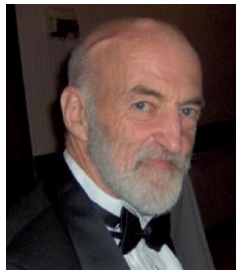
John Hudson
12th President, 2007—2011

What have we done 2011—2017?

International Society for Rock Mechanics

Institution of the Franklin Lecture in 2013

Recognises a mid-career ISRM member who has made a significant contribution to a specific area of rock mechanics and rock engineering.

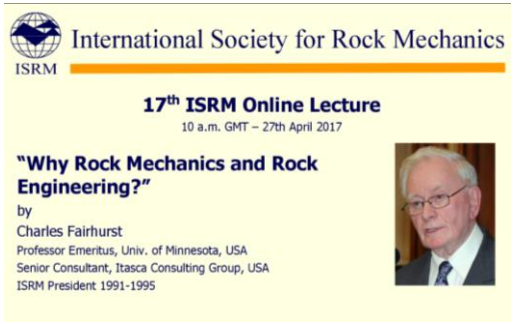


Xia-Ting Feng
13th President, 2011—2015

Eda Quadros
14th President, 2015—2019

New initiatives on the website and through social media

- Online lectures series, started in 2013: every three months
- Rock Mechanics glossary, launched in 2015, with 1000 words
- Communication through Twitter and LinkedIn.



New ISRM Awards

- Outstanding Commission Award.
- Best Performing National Group Award.

What have we done 2011—2017?

International Society for Rock Mechanics

Xia-Ting Feng

13th President, 2011—2015

2011–2015 - ISRM Vice President for Europe

Frédéric Pellet

Eda Quadros

14th President, 2015—2019

What have we done 2011—2017?

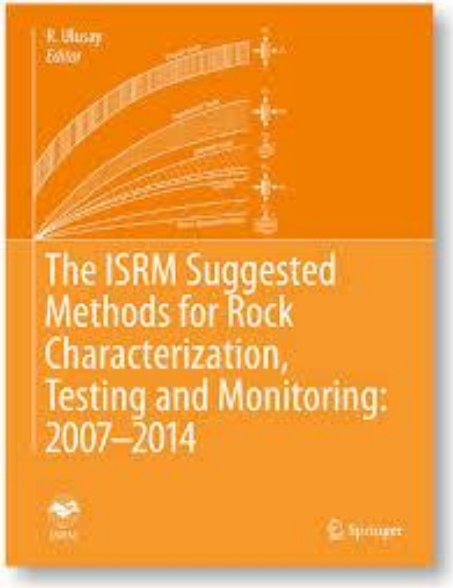
ISRM International Society for Rock Mechanics

New Commissions in this period

- Coupled THMC Processes
- Crustal Stress and Earthquakes
- Design Methodology
- Discontinuous Deformation Analysis
- Evolution of Eurocode 7
- Grouting
- Hard Rock Excavation
- Petroleum Geomechanics
- Soft Rocks
- Subsea Tunnels
- Underground Nuclear Power Plants
- URL Networking

The Orange Book, 2014

(Ed. R. Ulusay)



Xia-Ting Feng
13th President, 2011—2015

Eda Quadros
14th President, 2015—2019

Main technical concerns (in Congresses and Commissions)

- Rock mechanics for energy (hydrocarbon extraction, hydro-fracking, shale gas, very large dams)
- New survey techniques
- Prevention of large landslides
- Numerical modelling, large underground excavations

What have we done 2011—2017?

ISRM International Society for Rock Mechanics

Xia-Ting Feng

13th President, 2011—2015

Eda Quadros

14th President, 2015—2019

ISRM Online Lectures

3rd, Dec. **2013**, "Rock mechanics lessons from dams", **Pierre Duffaut**

10th, Jul. **2015**, "Multiphysics couplings and stability of fault zones", **Jean Sulem**

18th, Jul. **2017**, "The deformations in the vicinity of the face of a deep tunnel", **Marc Panet**

2017 - ISRM Specialised Conference, **Paris**

GeoProc 2017 - 6th Int. Conf. on Coupled THMC Processes in Geosystems

The ISRM in 2017

International Society for Rock Mechanics

A non-profit scientific association

Runs 18 technical Commissions, coordinated by a Technical Oversight Committee

Produces the ISRM Suggested Methods for testing

Runs a program of Sponsored Conferences

Has a program for young members, managed by a Young Members Committee

Has a fund specific for education, managed by a Education Fund Committee

Gives several awards to the rock mechanics fraternity

Publishes an annual News Journal and a quarterly e-Newsletter

Has a Digital Library, free for members

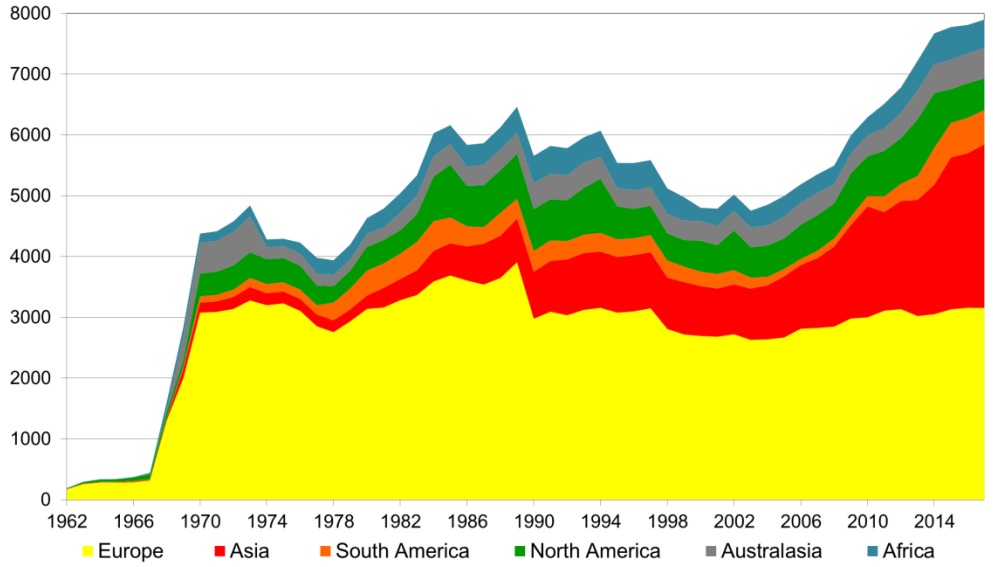
… and promotes many activities announced on the ISRM Website or through Tweeter and LinkedIn

The ISRM in 2017

ISRM International Society for Rock Mechanics

Membership

- 8000 individual members.
- 61 National Groups.
- 155 corporate members



The ISRM Board 2015-2019

• President:	Eda Quadros,	Brazil
• VP Africa:	William Joughin	S. Africa
• VP Asia:	Seokwon Jeon,	S. Korea
• VP Australasia:	Stuart Read,	New Zealand
• VP Europe:	Charlie Li,	Norway
• VP N. America:	Doug Stead,	Canada
• VP S. America:	Sérgio Fontoura	Brazil
• VP at Large:	Manchao He	China
• VP at Large:	Norikazu Shimizu	Japan
• VP at Large:	Petr Konicec	Czech Rep.
• Secretary General:	Luís Lamas	Portugal

The ISRM in 2017

International Society for Rock Mechanics

ISRM

Council meeting 2016

For more information visit our website: www.isrm.net