



**FEDERATION OF THE INTERNATIONAL
GEO-ENGINEERING SOCIETIES**

**JTC3 EDUCATION AND TRAINING
IN GEO-ENGINEERING**

**FINAL REPORT OF ACTIVITIES
2006 – 2009**

By

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JTC3 Chair**

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1. INTRODUCTION

Previous activities:

1. 11th November, 2005, Paris. Meeting of Presidents of ISSMGE, IAEG and ISRM.
Draft Guidelines for Joint Technical Committees.
2. 12th May, 2006, Amsterdam. FedIGS Meeting:
Proposal of Cooperation Agreement (Final FedIGS Agreement)
Proposal of the Terms of Reference of JTC3 Education and Training
3. June 2006 JTC3 starts activities.

2. MEMBERS

Chairman: Prof. Luis Gonzalez de Vallejo (Spain): vallejo@geo.ucm.es

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3. TERMS OF REFERENCE

TOR were proposed in accordance with the Guidelines defined by the presidents of the ISSMGE, IAEG, and ISRM in their meeting in Paris on November 11, 2005. In particular JTC3 is responsible for:

1. Discussing, developing and advancing the university education and professional training in the three geo-engineering disciplines; to address issues referred to it by the Presidents of the Sister Societies including solving thematic and practical questions or studying widespread problems in the broad field of education and training.
2. Encouraging the collaboration of those who practice in education and training in the geo-engineering disciplines.
3. Fostering and organizing Conferences, Symposia and Workshops.
4. Contributing to the International Congresses of ISSMGE, IAEG, and ISRM.
5. Fostering the exchange and spreading of knowledge about education and training in the geo-engineering disciplines as available from sources of the most current technical information in their fields of expertise.
6. Fostering the organization of training schools and preparation of guidelines and training packages.
7. Maintaining a website to spread the knowledge in the JTC to the individual members of the ISSMGE, IAEG, and ISRM.
8. Elaboration and maintenance of a State of the Art Report on Education and training in Engineering Geology (EG), Soil Mechanics(SM) and Rock Mechanics (RM).
9. Preparation of Guidelines and Suggestions for University Educational Programs in the Geo-engineering disciplines (EG, SM and RM).



4. MEETINGS HELD

During 2006 - 2009 the following meetings have been held:

- 1st Meeting: Nottingham, September 8th, 2006, IAEG Inter. Conference.
- 2nd Meeting: Singapore, November 9th, 2006, ISRM Asian Conference.
- 3rd Meeting: Lisbon, July 10th, 2007, ISRM Int. Congress.
- 4th Meeting: Madrid, September 26th, 2007, ISSMGE European Conference.
- 5th Meeting: Constantza, June 28th, 2008, International Conference of Education and Training in Geo-Engineering, ISSMGE.
- 6th Meeting: Madrid, September 16th, 2008, EUROENGE, IAEG Conference.
- 7th Meeting: Alexandría, October 7th, 2009, Inter. Congress of the ISSMGE

The minutes of these meetings are included in Appendix 3.

5. DELIVERIES

The following reports were presented to JTC3:

- *Adaptation of the ASCE Body of Knowledge Competency Approach to the Assessment of Education and Training Needs in Geo – Engineering*. 2010. K. Turner and N. Rengers (in Appendix 1).
- *Rocks Mechanics Curriculum Guide*. (2009) M. Kwasniewski (in Appendix 2).
- *Engineering Geology at the RWTH – Aachen and TU-Berlin*. (2009) R. Azam and J. Tiedemann (in Appendix 2).
- *Geotechnical Engineering Competencies*. (2009) M. Jaksa (in Appendix 2).

Papers presented by JTC3 members to the 1st Int. Conf. on Education and Training in Geo-Engineering Sciences. Constantza, have been published in *Education and Training in Geo-Engineering Sciences*. 2008. Manoliu and Radulescu (eds.). Taylor and Francis Group. London.

6. APPENDICES.

APPENDIX 1. Turner and N. Rengers, (January 2010). Adaptation of the ASCE Body of Knowledge Competency Approach to the Assessment of Education and Training Needs in Geo – Engineering.

APPENDIX 2. Curricula Reports.

APPENDIX 3. Minutes of JTC3 Meetings 2006 – 2009.