



AGH University of Science and Technology, KRAKOW, POLAND
UNESCO CHAIR FOR SCIENCE, TECHNOLOGY AND ENGINEERING
EDUCATION AT THE AGH UNIVERSITY OF SCIENCE AND TECHNOLOGY
KRAKOW, POLAND
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UNESCO AGH Fellowships ed. 2012-B in Engineering
Project Proposal for 6 months

Naukowa oferta stypendialna UNESCO - AGH 2012 B
dla młodych naukowców z krajów rozwijających

UNESCO - AGH 2012 Project B: promoting human resource capacities in the developing countries through intensive training and to enhancing international understanding and friendship among peoples of the world and the people of Poland

(In English only)

1. Project title: Rock Properties Influence on Injection Performance

Field of research: Geoengineering

Number of fellowships with free tuition sponsored by UNESCO: 1

2. Name of institution: AGH University of Science and Technology,
Faculty of Drilling, Oil and Gas

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Full address: A.Mickiewicza Av. 30, PL 30-059 Krakow, Poland

3. Name and Surname, title and full contact data of project supervisor:

Dariusz Knez Ph.D

Tel.: +48 12 6173784

Fax: +48 12 6173784

E-mail: knez@agh.edu.pl

WWW: www.agh.edu.pl/en

4. Project duration: 6 months

Proposed starting date: 1.10. 2012 (exact date to be agreed upon by the selected fellows and host Institution)

Language: English

Scientific contents: individual research programme under supervision of tutor (see page p.8)

5. Developing countries (specification): UNESCO Member States - please specify countries or region (Asia, Africa, Latin America, Caribbean and Pacific)

All regions

6. Academic requirements: Candidates should have a B.Sc. or M.Sc. degree,
please specify in more details

Preferably in earth engineering sciences.

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7. Qualifications required: for example

*be proficient in reading and writing in English;
be not more than ...45.... years of age; and be in good health, both physically
and . mentally; general knowledge in rock properties*
.....

8. Project description (in English):

R&D results: project description optional:

Expanding modern society requires new urban area. From sustainable development point of view the best solution is to make use of existing urban area or new one which is useless for other purposes. In second case quite often ground properties are not suitable for high buildings. Drilling methods are one of the most efficient way of ground modification. Project requires laboratory research on chosen rock properties. Based on laboratory results change of near wellbore region properties will be investigated. To find best solution new mathematical model based on laboratory results is necessary. Successful candidate will work in Drilling and Geoengineering Department laboratory using standard and modern laboratory equipment. Computer skills will be an advantage.

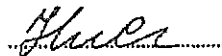
other outputs:

*laboratory research results
scientific paper*

9. Others information:

Stamp of the AGH UST Faculty

Project Supervisor
(signature)



Dean of the Faculty
(signature and stamp)
Wydział Inżynierii Górniczej i Energetyki, Narty I Gazu

Dr hab. inż. Stanisław NAGY, prof. AGH

Place and date: Krakow, January ...7-th, 2012