

United Nations Educational, Scientific and Cultural Organization

> Organisation des Nations Unies pour l'éducation, la science et la culture

Organización de las Naciones Unidas para la Educación, la Ciencia y la Cultura

Организация Объединенных Наший по вопросам образования, науки и культуры

منظمة الأمم المتحدة للتربية والعلم والثقافة

联合国教育、·

科学及文化组织 . Subject:

Fellowships Programme Section Sector for External Relations and Public Information

To: National Commissions for UNESCO of Invited Member States (see Annex I)

Ref.: ERI/NCS/FLP/DSG/11.0245

UNESCO/POLAND Co-Sponsored Fellowships Programme 2011 - 2012

Madam/Sir,

I am pleased to inform you that, within the framework of the UNESCO/Poland Co-Sponsored Fellowships Programme, the Polish National Commission for UNESCO has placed at the disposal of certain Member States (see Annex I) twentytwo (22) fellowships of six (6) months duration in Poland starting on 1st October 2011. Beneficiaries of these fellowships will be given the opportunity to undertake an individual research programme in the field of Science and Technology.

The annexes to this letter provide detailed information regarding the qualifications required, the facilities offered, the general conditions governing the award of fellowships and the procedure for submission of applications as well as different fields of research proposed at the selected host institution.

This programme is offered in open competition. Only candidates with the necessary qualifications, who meet the criteria stipulated in the annexes, will have a chance to be selected. The applications should be addressed to: Ali Zaid, Chief, Fellowships Programme Section, UNESCO, 7, place de Fontenoy - 75352 Paris 07 SP (France), by 30 April 2011 at the latest.

Please accept, Madam/Sir, the assurances of my highest consideration.

Ali Zaid (Mr) Chief Fellowships Programme Section

cc: Permanent Delegations to UNESCO of Invited Member States Polish National Commission for UNESCO Permanent Delegation of the Republic of Poland to UNESCO AGH University of Science and Technology (AGH-UST) UNESCO Field Offices (of invited countries) ADG/AFR ADG/SC ERI/MSO/ENA ERI/MSO/APA ERI/MSO/LAC

Enclosures: Annex I (List of Invited Member States per field of studies)

Annex II (Terms of Conditions)

Annex III (Qualifications required per field of study)

UNESCO Fellowship Application Form Certificate of Language Knowledge

7. place de Fontenoy 75352 Paris 07 SP, France Tél.: +33 (0)1 45 68 15 12 Fax: +33 (0)1 45 68 55 03

E-Mail: d.sengoz-gardes@unesco.org

UNESCO/POLAND CO-SPONSORED FELLOWSHIPS PROGRAMME 2011 - 2012

List of Invited Member States per region and field of research as determined by the Polish authorities

Project No.	FIELD OF RESEARCH/PROJECT TITLE	INVITED MEMBER STATES PER REGION*
1	Mining Waste Management (1)	Africa, Asia and the Pacific, Latin America and the Caribbean
2	Solid State Physics (1)	Africa, Asia and Pacific, Latin America and the Caribbean
3	Geo-engineering (3)	India, Bangladesh, Papua New Guinea
4	Mechanical Engineering (2)	Africa, Asia and the Pacific, Latin America and the Caribbean
5	Geology & Geophysics (1)	Asia and the Pacific
6	Ceramic & Material Engineering (3)	Africa, Asia and the Pacific
7	Manufacturing Technology Engineering (2)	Africa, Asia and the Pacific, Latin America and the Caribbean
8	Sociology & Socio-cultural Anthropology (1)	Africa, Asia and the Pacific, Europe
9	Automation & Monitoring Engineering (1)	Africa, Asia and the Pacific
10	Software Engineering (2)	Africa, Asia and the Pacific, Latin America and the Caribbean
11	Transport Engineering (2)	Africa, Asia and the Pacific, Latin America and the Caribbean
12	Gas Engineering (1)	Kazakhstan, Georgia, Ukraine, Pakistan, Bangladesh, Africa, Asia and the Pacific
13	Decision Engineering (2)	Africa, Asia and the Pacific, Latin America and the Caribbean

Please refer to the list of invited Member States entitled to submit applications hereunder.

AFRICA

Angola, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Cape Verde, Central African Republic, Chad, Comoros, Congo, Côte d'Ivoire, Democratic Republic of the Congo, Djibouti, Equatorial Guinea, Eritrea, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritius, Mozambique, Namibia, Niger, Nigeria, Rwanda, Sao Tome and Principe, Senegal, Seychelles, Sierra Leone, Somalia, South Africa, Sudan, Swaziland, Togo, Uganda, United Republic of Tanzania, Zambia, and Zimbabwe.

ASIA AND THE PACIFIC

Afghanistan, Bangladesh, Bhutan, Cambodia, China, Fiji, India, Indonesia, Japan, Kazakhstan, Kiribati, Kyrgyzstan, Lao People's Democratic Republic, Macao China (Associate Member), Malaysia, Maldives, Mongolia, Myanmar, Nauru, Nepal, Niue, Pakistan, Palau, Papua New Guinea, Philippines, Russian Federation, Samoa, Sri Lanka, Tajikistan, Thailand, Timor-Leste, Tokelau (Associate Member), Tonga, Turkmenistan, Tuvalu, Uzbekistan, Vanuatu, and Viet Nam.

EUROPE

Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Republic of Moldova, Tajikistan, and Ukraine.

LATIN AMERICA AND THE CARIBBEAN

Argentina, Barbados, Belize, Bolivia (Plurinational State of), Brazil, Chile, Colombia, Costa Rica, Cuba, Dominica, Dominican Republic, Ecuador, El Salvador, Grenada, Guatemala, Guyana, Haiti, Honduras, Jamaica, Mexico, Nicaragua, Panama, Paraguay, Peru, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Suriname, Trinidad and Tobago, Uruguay, and Venezuela (Bolivarian Republic of).

UNESCO/POLAND CO-SPONSORED FELLOWSHIPS PROGRAMME 2011 - 2012

With a view to promoting human resource capacities in the developing countries and to enhancing international understanding and friendship among nations and the people of Poland, the Polish National Commission for UNESCO and the AGH International Promotion Centre for Technology, Science and Engineering Education (AGH IPCTEE) under the auspice of UNESCO - AGH University of Science and Technology (Krakow), are placing at the disposal of UNESCO twenty-two (22) fellowships of six (6) months duration starting on 1st October 2011 for the benefit of Member States listed in Annex I. Beneficiaries of these fellowships will be given the opportunity to undertake an individual research programme in the field of Science and Technology.

Details regarding the fellowships offered and the criteria of selection are listed below. The Polish authorities will make the final decision.

A. FIELD OF RESEARCH

Fields of research proposed under the UNESCO/Poland Co-Sponsored Fellowships Programme 2011 by the Polish National Commission for UNESCO and AGH University of Science and Technology, are listed as follows (see Annex III):

- 1. **Mining Waste Management (One Fellowship):** Mining and Mineral Processing Innovation Network for Small and Medium Sized Enterprises (SMEs) in Waste Technologies (MIN NOVATION).
- 2. **Solid State Physics (One Fellowship):** Studies Magnetostriction in Stoichiometric and Doped Magnetite Single Crystals.
- 3. **Geo-engineering (Three Fellowships):** (1) Properties of Near Wellbore Region; (2) Simulation of Flow in Near Wellbore Region.
- 4. **Mechanical Engineering (Two Fellowships):** Availability Problems in Transportation Systems and Devices.
- 5. **Geology and Geophysics (One Fellowship):** Prospecting for Mineral Deposits in Desert Environment.
- 6. **Ceramic and Metal Engineering (Three Fellowships):** Advanced Ceramic Materials.
- 7. **Manufacturing Technology Engineering (Two Fellowships):** Transportation Technology Systems and Devices.
- 8. **Sociology and Socio-Cultural Anthropology (One Fellowship):** Diverging Patterns of European Culture and Technology in the Globalizing World.
- 9. **Automation and Monitoring Engineering (One Fellowship):** Supervisory Control and Monitoring of Transportation Processes.
- 10. **Software Engineering (Two Fellowships):** Smart Methodologies for Development of Software for Embedded Systems.
- 11. Transport Engineering (Two Fellowships): Transportation System Telematics.
- 12. **Gas Engineering (One Fellowship):** Enhanced Gas Recovery (EGR) Technology with CO² Sequestration in Gas Fields.
- 13. **Decision Engineering (Two Fellowships):** Problem Base Engineering.

B. QUALIFICATIONS REQUIRED

The required qualifications for each field of research (project) are as per the attached annexes to this letter of announcement (see Annex III).

C. FACILITIES OFFERED BY THE POLISH AUTHORITIES

- (i) Free tuition;
- (ii) Monthly allowance of **1350 PLN zlotys** (approximately US \$450) corresponding to the salary of a local junior research fellow. Thus, all living expenses in Poland are to be borne by the fellow with this allowance; and;
- (iii) An installation allowance of 1350 PLN zlotys to be paid upon arrival in Poland.

No provision to finance or lodge family members is made.

At the end of the research studies, the beneficiaries will receive a certificate attesting to their attendance at the host institution.

D. FACILITIES OFFERED BY UNESCO

- (i) International travel expenses: (by the most direct, economical route) from the beneficiary's country to and from Poland will be covered by UNESCO under its Regular Programme Budget.
- (ii) Health insurance for fellowship beneficiaries who are declared medically fit: UNESCO fellowship holders may be covered by a health insurance policy, taken-out by the Organization for the duration of fellowship. The costs of this health insurance is subscribed to and covered by UNESCO on behalf of awarded fellows.

E. VISA

Fellows, from countries where Polish Embassies or Consulates exit, will have to obtain their entry visa to the country of study prior to their departure. Fellows, from countries where no such Embassy or Consulate exists, must secure their visa through the nearest Embassy of the Republic of Poland.

UNESCO and the Government of the Republic of Poland <u>provide no allowance</u> to defray passport and visa expenses. Selected beneficiaries will have <u>to secure their own visas</u> themselves.

F. SUBMISSION OF APPLICATION FILES

One candidature should be submitted per invited Member State. Original applications in duplicate must be channelled through the National Commission for UNESCO of the candidate's country and communicated to Ali Zaid, Chief, Fellowships Programme Section, by 30 April 2011 at the latest. An advance copy of the application may be sent by fax (33.1) 45.68.55.03. Applications should have imperatively the following attachments in DUPLICATE:

- (i) UNESCO fellowships application forms, **ALL four (4) pages** duly completed in English;
- (ii) Two photographs attached to the applications (4x6 cm);
- (iii) Certified copies (in English) of Bachelor's or Master's Degree obtained; and,
- (iv) UNESCO certificate of language knowledge, duly completed by a relevant authority, if the mother tongue of the candidate is not English.

Deadline 30 April 2011 at the latest

IMPORTANT

It is the National authority's responsibility to ensure that all candidates are duly informed of the abovementioned conditions prior to the submission of applications.

Files which are incomplete or which are received after the deadline as well as candidatures that do not fulfil the requirements will not be taken into consideration.

Only the selected candidates will receive a letter through their respective National Commissions for UNESCO.

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

A. Mickiewicza Ave 30, PL 30-059 Krakow, Poland E-mail: unesco@agh.edu.pl

UNESCO/Poland Co-Sponsored Fellowships 2011 - in Engineering

- 1. Field of research: Mining Waste Management. Project title: Mining and Mineral Processing Innovation Network for Small- and Medium- sized Enterprises in Waste Technologies (MINNOVATION). Project supervisor: prof. dr hab. inż. Marek Cała. Name of institution: AGH University of Science and Technology, Krakow, Poland, Faculty of Mining and Geoengineering. Duration: 6 months from October 1, 2011, Africa, Asia, Latin America countries. Language: English. Number UNESCO fellowships: 1.
- Field of research: Solid State Physics. <u>Project title</u>: Studies Magnetostriction in Stoichiometric and Doped Magnetite Single Crystals. Project supervisor: prof. dr hab. inż. Andrzej Kozłowski. Name of institution: AGH University of Science and Technology, Krakow, Poland, Faculty of Physics and Applied Computer Science. Duration: 6 months from October 1, 2011, Africa, Asia, Latin America countries. Number UNESCO fellowships: 1.
- 3. <u>Field of research</u>: Geoengineering. <u>Project title</u>: Properties of Near Wellbore Region. <u>Project (2) title</u>: Simulation of Flow in Near Wellbore Region. Project supervisor: dr inż. Dariusz Knez. Name of institution: AGH University of Science and Technology, Krakow, Poland, Faculty of Drilling, Oil and Gas. Duration: 6 months from October 1, 2011, India, Bangladesh, Papua New Guinea countries. Language: English. Number UNESCO fellowships: 3.
- 4. Field of research: Mechanical Engineering. Project title: Availability Problems in Transportation Systems and Devices. Project supervisor: prof. dr hab. inż. Janusz Szpytko. Name of institution: AGH University of Science and Technology, Krakow, Poland, Faculty of Mechanical Engineering and Robotics. Duration: 6 months from October 1, 2011, optional Africa, Asia, Pacific Region, Latin America, Carriaribien countries. Language: English. Number UNESCO fellowships: 2.
- 5. Field of research: Geology and Geophysics. Project title: Prospecting for Mineral Deposits in Desert Environment. Project supervisor: prof. dr hab. inż. Adam Piestrzyński. Name of institution: AGH University of Science and Technology, Krakow, Poland, Faculty of Geology, Geophysics and Environmental Protection. Duration: 6 months from October 1, 2011, Asia countries. Language: English. Number UNESCO fellowships: 1.
- 6. Field of research: Ceramic and Material Engineering. Project title: Advanced Ceramic Materials. Project supervisors: prof. dr hab. inż. Jerzy Lis; dr inż. Leszek Chlubny; dr inż. Janusz Partyka.. Name of institution: AGH University of Science and Technology, Krakow, Poland, Faculty of Materials Science and Ceramics. Duration: 6 months from October 1, 2011, optional Asia, Africa countries. Language: English. Number UNESCO fellowships: 3.
- Field of research: Manufacturing Technology Engineering. Project title: Transportation Technology Systems and Devices. Project supervisor: prof. dr hab. inż. Janusz Szpytko. Name of institution: AGH University of Science and Technology, Krakow, Poland, Faculty of Mechanical Engineering and Robotics. Duration: 6 months from October 1, 2011, optional Africa, Asia, Pacific Region, Latin America, Carriaribien countries. Language: English. Number UNESCO fellowships:
- 8. <u>Field of research</u>: Sociology and Socio-Cultural Anthropology. <u>Project title</u>: Diverging Patterns of European Culture and Technology in the Globalizing World. Project supervisor: Prof. zw. dr hab. Janusz Mucha. Name of institution: AGH University of Science and Technology, Krakow, Poland, Faculty of Humanities. Duration: 6 months from October 1, 2011, Eastern Europe, Africa, Asia countries. Language: English. Number UNESCO fellowships: 1.



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- 9. <u>Field of research:</u> Automation and Monitoring Engineering. <u>Project title:</u> Supervisory Control And Monitoring of Transportation Processes. Project supervisor: dr inż. Jarosław Smoczek. Name of institution: AGH University of Science and Technology, Krakow, Poland, Faculty of Mechanical Engineering and Robotics. Duration: 6 months from October 1, 2011, optional Asia, Africa countries. Language: English. Number UNESCO fellowships: 1.
- 10. Field of research: Software Engineering. Project title: Smart Methodologies for Development of Software for Embedded Systems. Project supervisor: prof. dr hab. inż. Tomasz Szmuc. Name of institution: AGH University of Science and Technology, Krakow, Poland, Faculty of Electrical Engineering, Automatics, IT and Electronics. Duration: 6 months from October 1, 2011, optional Asia, Africa, Latin America countries. Language: English. Number UNESCO fellowships: 2.
- 11. Field of research: Transport Engineering. Project title: Transportation System Telematics. Project supervisor: prof. dr hab. inż. Janusz Szpytko. Name of institution: AGH University of Science and Technology, Krakow, Poland, Faculty of Mechanical Engineering and Robotics. Duration: 6 months from October 1, 2011, optional Africa, Asia, Pacific Region, Latin America, Carriaribien countries. Language: English. Number UNESCO fellowships: 2.
- 12. Field of research: Gas Engineering. Project title: Enhanced Gas Recovery (EGR) Technology with CO₂ Sequestration in Gas Fields. Project supervisor: dr hab. inż. Stanislawe Nagy. Name of institution: AGH University of Science and Technology, Krakow, Poland, Faculty of Drilling and Oil-Gas. Duration: 6 months from October 1, 2011, Kazakhstan, Georgia, Ukraine, Central Asia, Middle Asia (Pakistan, Bangladesh), Africa (any country) countries. Language: English. Number UNESCO fellowships: 1.
- 13. Field of research: Decision Engineering. Project title: Problem Base Engineering. Project supervisor: prof. dr hab. inż. Janusz Szpytko. Name of institution: 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. Duration: 6 months from October 1 (one fellow)/ from December 1 (one fellow), 2011, optional Africa, Asia, Pacific Region, Latin America, Carriaribien countries.. Language: English. Number UNESCO fellowships: 2.

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UNESCO/Poland Co-Sponsored Fellowships 2011 in Engineering

<u>UNESCO AGH Chair - 2011 Project B</u>: 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

Project No 01

Field of research: Mining Waste Management

1. Project title: Mining and Mineral Processing Innovation Network for Smal I- and Medium - sized Enterprises in Waste Technologies (MIN-NOVATION)

Number of fellowships with free tuition sponsored by UNESCO: 1

2. Name of institution: AGH University of Science and Technology, Faculty of Mining and Geoengineering

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

3. Name, title and full contact data of project supervisor: Prof. dr hab. inż. Marek CAŁA

Tel.: +48 12 617 21-62 Fax: +48 12 423-37 60 E-mail cala@agh.edu.pl

www.agh.edu.pl

4. Project duration: 6 months

Proposed starting date: 1.10. 2011 /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 next page p.8)

5. Developing countries (specification): UNESCO Member States - Africa, Asia, Latin America countries

6. Academic requirements: Candidates should have a B.Sc. or M.Sc. degree, in mining and/or environmental

engineering field

7. Qualifications required: be proficient in reading and writing in English; be not more than 40 years of age;

and be in good health, both physically and mentally; be able to write computer

programs for example: MS Word, Excel, Power Point

8. Project description (in English):

Project description optional:

MIN-NOVATION aims to create a trans-national network that brings together universities and other research institutions with regional business development agencies to help increase the pace and volume of mining and mineral processing waste management innovation coming out of academic and research institutions into the private sector (SMEs). Four pilot investments in mining waste recovery engineering will be implemented during the project duration in order to check their usefulness for applying in industrial scale.

R&D results:

- establishing cooperation with other Universities and institutions being active in the mining waste management field and environmental engineering in order to exchange the knowledge and experience,
- strengthened international performance of innovation sources and improved links to SMEs,
- improving transnational transfer of technology and knowledge,
- improving environment and protecting natural mineral deposits thought reducing mining and processing waste and use them as product instead of natural resources.

Other outputs:

- workshops and conferences,
- reports on the status of mine waste management,
- compendium of technologies for waste management/prevention,
- guidelines and Declaration on Waste Management & Prevention,
- 4 pilot investments with follow-up activities.

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UNESCO/Poland Co-Sponsored Fellowships 2011 in Engineering

<u>UNESCO AGH Chair - 2011 Project B</u>: 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

Project No 02

Field of research: Solid State Physics

1. Project title: Studies Magnetostrictioni in Stoichiometric and Doped Magnetite Single Crystals

Number of fellowships with free tuition sponsored by UNESCO: 1

2. Name of institution: AGH University of Science and Technology, Faculty of Physics and Applied Computer
Science

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

3. Name, title and full contact data of project supervisor: prof. dr hab. inż. Andrzej Kozłowski

Tel.: +48 12 617 3809 E-mail: kozlow@agh.edu.pl

www.agh.edu.pl

4. Project duration: 6 months

Proposed starting date: 1.10. 2011 /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 next page p.8)

5. Developing countries (specification): UNESCO Member States - Africa, Asia, Latin America countries

6. Academic requirements: Candidates should have a B.Sc. or M.Sc. degree in Physics or Technical Physics

7. Qualifications required: be proficient in reading and writing in English; be not more than 40 years of age; and be

in good health, both physically and mentally;

8. Project description:

Project description optional:

The project is to study magnetostriction in magnetite-based single crystalline materials in order to see how large the interaction of magnetic moment with the lattice is and if magnetism can participate in the interactions leading to the Verwey phase transformation at $T_V = 120$ K. Crystal lattice dynamics was already shown to influence this transition. In case the strong spin-lattice coupling is present then any change in magnetism of magnetite could affect crystal structure, i.e., ultimately, the transition. The possible finding of this effect would constitute a real breakthrough in the science of magnetite since the most common opinion is that the magnetic degrees of freedom do not participate in the interactions leading to the transition. In addition to that problem, the results of magnetostriction measurements will help to better understand our recent measurements of magnetic axis switching phenomenon.

R&D results:		
As above		
other outputs: project study		

AGH University of Science and Technology, KRAKOW, POLAND

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UNESCO/Poland Co-Sponsored Fellowships 2011 in Engineering

<u>UNESCO AGH Chair - 2011 Project B</u>: 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

Project No 03

Field of research: Geoengineering

1. Project title: - Properties of Near Wellbore Region (project no 1)

- Simulation of Flow in Near Wellbore Region (project no 2)

Number of fellowships with free tuition sponsored by UNESCO: 3

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

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

3. Name, title and full contact data of project supervisor: Dr inż. Dariusz Knez

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. 2011 /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 next page p.8)

5. Developing countries (specification): UNESCO Member States - India, Bangladesh, Papua New Guinea

- 6. Academic requirements: Candidates should have a B.Sc. or M.Sc. degree, Preferably in earth engineering sciences.
- 7. Qualifications required: 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:

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 (1) requires laboratory research on chosen ground 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.

Project (2) - Drilling methods are one of the most efficient way of ground modification. One of the most popular is sealing slurry injection into near wellbore region. Fluid flow during injection process has many important parameters that needs to be simulated. Project requires programming or computer simulation knowledge. Successful candidate will work in Drilling and Geoengineering Department writing program code to develop computer model of fluid flow in near wellbore region.

other outputs:

laboratory research results (1) computer program (2) scientific paper

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UNESCO/Poland Co-Sponsored Fellowships 2011 in Engineering

<u>UNESCO AGH Chair - 2011 Project B</u>: 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

Project No 04

Field of research: Mechanical Engineering

1. Project title: Availability problems in transportation systems and devices

Number of fellowships with free tuition sponsored by UNESCO: 2

2. Name of institution: AGH University of Science and Technology, Faculty of Mechanical Engineering

and Robotics

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

3. Name, title and full contact data of project supervisor: **Prof. dr hab. inż. Janusz Szpytko**

Tel.: +48 12 6173103 Fax: +48 12 6173531 E-mail szpytko@agh.edu.pl

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4. Project duration: 6 months

Proposed starting date: 1.10. 2011 /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 next page p.8)

5. Developing countries (specification): UNESCO Member States - Africa, Asia, Latin America, Pacific Region,

Caribbean countries

6. Academic requirements: Candidates should have a B.Sc. or M.Sc. degree

7. Qualifications required: be proficient in reading and writing in English; be not more than 40 years of age; and

be in good health, both physically and mentally; be able to write computer programs for example or be familiar with CAD/ CAM/ CAE programs, have a general

knowledge related to engineering problems, including safety and reliability;

8. Project description (in English):

Project description optional:

Technical devices and systems availability problems. To design and testing in laboratory the availability of transportation systems and devices, to design the transportation system safety and reliability.

R&D results:

Improvement in safety and reliability of transportation systems and devices

Other outputs:

Publications, future projects

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UNESCO/Poland Co-Sponsored Fellowships 2011 in Engineering

<u>UNESCO AGH Chair - 2011 Project B</u>: 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

Project No 05

Field of research: Geology and Geophysics

1. Project title: Prospecting for mineral deposits in desert environment

Number of fellowships with free tuition sponsored by UNESCO: 1

2. Name of institution: AGH University of Science and Technology, Faculty of Geology, Geophysics and Environmental Protection

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

3. Name, title and full contact data of project supervisor: **Prof. dr hab inż. Adam Piestrzyński**

Tel.: +48 12 617 2433 Fax: +48 12 633-29-36

E-mail piestrz@geol.agh.edu.pl

WWW www.agh.edu.pl

4. Project duration: 6 months

Proposed starting date: 1.10. 2011 /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 next page p.8)

5. Developing countries (specification): UNESCO Member States - Asia

6. Academic requirements: Candidates should have a B.Sc. or M.Sc. degree

7. Qualifications required: be good in reading and writing in English; be in good health, both physically and

mentally

8. Project description (in English):

R&D results:

 $Organization\ of\ geological\ works\ in\ high\ risk\ environment\ like\ Gobi\ desert.$

Field of activities:

satellite Landsat data collection and interpretation

- comparison of Landsat images with geology - importance

introduction to field mapping

understanding of geochemical prospecting in the desert environment

deposits modes as a key for planning of field works

- selection data and prognoses of mineral deposits

Other outputs:

introduction to mineral description and determinations

valorization and verification of geological data base

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UNESCO/Poland Co-Sponsored Fellowships 2011 in Engineering

<u>UNESCO AGH Chair - 2011 Project B</u>: 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

Project No 06

Field of research: Ceramic and Material Engineering

1. Project title: Advanced Ceramic Materials

Number of fellowships with free tuition sponsored by UNESCO: 3

2. Name of institution: AGH University of Science and Technology, Faculty of Materials Science and Ceramics

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

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

 prof . dr hab. inż. Jerzy Lis
 dr inż. Leszek Chlubny
 dr inż. Janusz Partyka

 Tel.: +48 12 6172040
 Tel.: +48 12 617 2667
 Tel.: +48 12 617 3654

 Fax: +48 12 6334199
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 E-mail: leszek@agh.edu.pl
 E-mail: partyka@agh.edu.pl

 www.agh.edu.pl
 www.agh.edu.pl
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4. Project duration: 6 months

Proposed starting date: 1.10. 2011 /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 next page p.8)

5. Developing countries (specification): UNESCO Member States - Africa and Asia

6. Academic requirements: Candidates should have a B.Sc. or M.Sc. degree

7. Qualifications required: be proficient in reading and writing in English; be not more than 40 years of age; and be

in good health, both physically and mentally; general knowledge in ceramic engineering,

technology or material science

8. Project description (in English):

Supervisors: prof. dr hab. inż. Jerzy Lis and dr inż. Leszek Chlubny

project description:

to design and testing in laboratory the advanced ceramic improvement in ceramic engineering

Other outputs:

publications, future projects

Supervisor: dr inż. Janusz Partyka

Project description:

Modern glaze, glass-ceramic coating for floor tiles: composition of glaze-ceramic coating (raw, fritted), examination basic parameters, development of composition, preparation and firing conditions.

Modification of microstructure and mechanical properties of high alumina porcelain: modification of body composition, modification of firing conditions, introduction to compositions of raw body nucleating agents.

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UNESCO/Poland Co-sponsored Fellowships 2011 in Engineering

<u>UNESCO AGH Chair - 2011 Project B</u>: 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

Project No 07

Field of research: Manufacturing Technology Engineering

1. Project title: Transportation technology systems and devices

Number of fellowships with free tuition sponsored by UNESCO: 2

2. Name of institution: AGH University of Science and Technology, Faculty of Mechanical Engineering

and Robotics

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

3. Name, title and full contact data of project supervisor: **Prof. dr hab. inż. Janusz Szpytko**

Tel.: +48 12 6173103 Fax: +48 12 6173531 E-mail szpytko@agh.edu.pl

www.agh.edu.pl

4. Project duration: 6 months

Proposed starting date: 1.10. 2011 /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 next page p.8)

5. Developing countries (specification): UNESCO Member State - Africa, Asia, Latin America, Pacific Region,

Carriaribien countries

6. Academic requirements: Candidates should have a B.Sc. or M.Sc. degree

7. Qualifications required: be proficient in reading and writing in English; be not more than 40 years of age; and

be in good health, both physically and mentally; be able to write computer programs for example or be familiar with CAD/ CAM/ CAE programs, have a general knowledge related to transportation problems, including designing and both operation

and maintenance problems

8. Project description (in English):

project description optional:

Manufacturing technology engineering knowledge improving. To design and testing the selected transportation systems and devices, to design the transportation system safety and reliability, to design and testing telematic based system of transportation system.

R&D results:

Improvement in safety and reliability of transportation systems and devices.

other outputs:

Publications, future projects.

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UNESCO/Poland Co-Sponsored Fellowships 2011 in Engineering

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Project No 08

Field of research: Sociology and Socio-Cultural Anthropology

1. Project title: Diverging Patterns of European Culture and Technology in the Globalizing World

Number of fellowships with free tuition sponsored by UNESCO: 1

2. Name of institution: AGH University of Science and Technology, Faculty of Humanities

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

3. Name, title and full contact data of project supervisor: **Prof. zw. dr hab. Janusz Mucha**

Tel.: +48 12 617-4380, 617-4250

Fax: +48 12 617-4381

E-mail: jmucha@post.pl; jmucha@agh.edu.pl

WWW.wh.agh.edu.pl

4. Project duration: 6 months

Proposed starting date: 1.10. 2011 /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 next page p.8)

5. Developing countries (specification): UNESCO Member State - Africa, Asia, Eastern Europe

6. Academic requirements: Candidates should have a MA degree in humanities or social sciences

7. Qualifications required:

Documents conforming the MA degree, be proficient in reading and writing in English. If the language of instruction is not the mother tongue of the candidate, a certificate of language proficiency must be provided; be not more than 45 years of age; and be in good health, both physically and mentally.

8. Project description (in English):

Project description optional:

Both in Eastern Europe and in other parts of the globalizing world, various cultural patterns compete. "European culture", in all its diversity, is still one of the most important "actors" on the global scene. However, at least four simultaneous processes should be taken into account. One is unification of some cultural patters within the global popular culture, the second is continuous diversification of European cultures, the third is the growing impact on the European cultures from the former and current "peripheries", and the fourth is diffusion of technological ideas and their implementations in the fields of engineering between cultures of European origin and other cultures.

Participants of the project would be expected to analyze their own cultures in the context of the processes mentioned above. They would work within the Department of Sociology and Social Anthropology of the Faculty of Humanities: collaborate in project developed here, present their findings at the departmental seminars and write a report on the cultural developments in their own countries as observed from the point of view of the topic presented above.

R&D results:

Better understanding of cultural/technological flows between various regions of globalizing world

Other outputs:

Better understanding of the UNESCO fellow of the Polish cultural/technological accomplishments.

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UNESCO/Poland Co-Sponsored Fellowships 2011 in Engineering

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Project No 09

Field of research: <u>Automation and Monitoring Engineering</u>

1. Project title: Supervisory control and monitoring of transportation processes

Number of fellowships with free tuition sponsored by UNESCO: 1

2. Name of institution: AGH University of Science and Technology, Faculty of Mechanical Engineering and Robotics

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

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

dr inż. Jarosław Smoczek Tel.: +48 12 617 3104 Fax: +48 12 617 3531 E-mail smoczek@agh.edu.pl www.agh.edu.pl

4. Project duration: 6 months

Proposed starting date: 1.10. 2011 /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 next page p.8)

- 5. Developing countries (specification): UNESCO Member States Africa, Asia
- 6. Academic requirements: Candidates should have a B.Sc. or M.Sc. degree
- 7. Qualifications required:

be proficient in reading and writing in English;

be not more than 40 years of age; and be in good health, both physically and mentally; be able to write computer programs for example CAD, Matlab;

8. Project description (in English):

project description optional:

automation of transportation operations in material handling systems, identification, modeling and simulations of transportations systems

R&D results:

knowledge and practice improvement in project subject

other outputs:

knowledge and practice improvement in project subject

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UNESCO/Poland Co-Sponsored Fellowships 2011 in Engineering

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Project No 10

Field of research: Software Engineering

1. Project title: Smart methodologies for development of software for embedded systems

Number of fellowships with free tuition sponsored by UNESCO: 2

2. Name of institution: AGH University of Science and Technology, Faculty of Electrical Engineering, Automatics, IT and Electronics

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

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

prof . dr hab. inż. Tomasz Szmuc

Tel.: +48 12 617 2007 Fax: +48 12 423 3570 E-mail tsz@agh.edu.pl www.agh.edu.pl

4. Project duration: 6 months

Proposed starting date: 1.10. 2011 /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 next page p.8)

- 5. Developing countries (specification): UNESCO Member States- Africa, Asia, Latin America countries
- 6. Academic requirements: Candidates should have a B.Sc. or M.Sc. degree,
- 7. Qualifications required:

be proficient in reading and writing in English;

be not more than 40 years of age; and be in good health, both physically and mentally; good skills in computer engineering, basic knowledge in software engineering, good background in mathematics

8. Project description:

Project description optional:

The aim of the project is to incorporate verification methods to support development of correct software for embedded systems. The concept is based on introduction of parallel thread in which systematic verification of developed software artifacts will be carried out.

R&D results:

Modification of existing software development methodology. Software modules supporting the verification.

Other outputs:

Cooperation with researches working in this area. Improvement of knowledge on Polish culture and history.

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UNESCO/Poland Co-Sponsored Fellowships 2011 in Engineering

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Project No 11

Field of research: Transport Engineering

1. Project title: **Transportation system telematics**

Number of fellowships with free tuition sponsored by UNESCO: 2

2. Name of institution: AGH University of Science and Technology, Faculty of Mechanical Engineering and Robotics

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

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

Prof . dr hab. inż. Janusz Szpytko

Tel.: +48 12 6173103 Fax: +48 12 6173531 E-mail szpytko@agh.edu.pl

www.agh.edu.pl

4. Project duration: 6 months

Proposed starting date: 1.10. 2011 /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 next page p.8)

5. Developing countries (specification): UNESCO Member States-Africa, Asia, Latin America, Pacific Region

Caribbean countries

6. Academic requirements: Candidates should have a B.Sc. or M.Sc. degree

7. Qualifications required: be proficient in reading and writing in English; be not more than 40 years of age; and

be in good health, both physically and mentally; be able to write computer programs for example in C++, ProEngineer, or be familiar with MatlabSimulink, or CA-D/M, FEM, have a general knowledge related to telematic in transportation, or construction

testing and measurement.

8. Project description:

Project description optional:

To design and testing the intelligent control solutions of selected transportation device, to design and testing the measurement systems of selected exploitation parameters of selected transportation device, to design and testing telematic system of transportation system.

R&D results:

Improvement in safety and reliability of transportation systems and devices, transport telematics solutions.

Other outputs:

Publications, future projects.

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UNESCO/Poland Co-Sponsored Fellowships 2011 in Engineering

<u>UNESCO AGH Chair - 2011 Project B</u>: 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

Project No 12

Field of research: Gas Engineering

1. Project title: Enhanced Gas Recovery (EGR) technology witch CO2 sequestration in gas fields

Number of fellowships with free tuition sponsored by UNESCO: 2

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

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

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

dr hab. inż. Stanisław Nagy

Tel.: +48 12 6172209 Fax: +48 12 6172219

E-mail: Stanislaw.nagy@agh.edu.pl

www.wnig.agh.edu.pl/EN

4. Project duration: 6 months

Proposed starting date: 1.10. 2011 /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 next page p.8)

5. Developing countries (specification): UNESCO Member States – Kazakhstan, Georgia, Ukraina, Central Asia, Middle Asia (Pakistan, Bangladesh), Africa

- 6. Academic requirements: Candidates should have a B.Sc. or M.Sc. degree in: petroleum engineering, geoscience, gas engineering or mechanical engineering
- 7. Qualifications required: be proficient in reading and writing in English; be not more than 35 years of age; and be in good health, both physically and mentally;
- 8. Project description (in English):

R&D results: project description optional:

Modeling the process of simulation of CO2 injection into gas field. Risk analysis of safety sequestration process. Preparation of 3D geological model of CO2 storage after recovery of natural gas. Use of well logs, structural and property maps and geophysics data to develop of model. Analysis of risk of leak of CO2 by wells and by artificial induction of fractures, (or) by existing faults during time of simulation. All presented aspects should be included in research report.

Other outputs:

3D model of natural gas field with different scenario of gas forecasting recovery and long term CO2 sequestration model

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Project No 13

Field of research: Decision engineering

1. Project title: **Problem base engineering**

Number of fellowships with free tuition sponsored by UNESCO: 2

2. Name of institution: AGH University of Science and Technology, UNESCO Chair for Science,

Technology and Engineering Education at the AGH University of Science and

Technology Krakow

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

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

Prof . dr hab. inż. Janusz Szpytko

Tel.: +48 12 6173103 Fax: +48 12 6173531 E-mail szpytko@agh.edu.pl

www.agh.edu.pl

4. Project duration: 6 months

Proposed starting date: from October 1, 2011 - 1 person, from December 1, 2011 - 1 person (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 next page p.8)

5. Developing countries (specification): UNESCO Member States - Africa, Asia, Latin America, Pacific Region,

Caribbean countries

6. Academic requirements: Candidates should have a B.Sc. or M.Sc. degree

7. Qualifications required:

be proficient in reading and writing in English;

be not more than 40 years of age; and be in good health, both physically and mentally; be able to use MS Office and drawing programs, be familiar with CAD/ CAE programs, have a

general knowledge related to engineering problems

8. Project description (in English):

Project description optional:

Project refers to creating different type of projects (engineering, higher engineering education, R&D types) in various engineering fields with use problem base learning approach and include different aspects, e.g.: finance, human resources management, industrial psychology, information systems, mathematical modeling and optimization, quality control, operations research, safety and health issues, and environmental management.

R&D results:

Background for future actions creation.

Other outputs:

publications, future projects



United Nations Educational, Scientific and Cultural Organization

7, place de Fontenoy, 75352 Paris 07 SP telephone: (33.1) 45.68.10.00 telex: 204461 Paris 270602 Paris telefax UNESCO: (33.1) 45.66.94.29

APPLICATION FOR FELLOWSHIP

under the UNESCO FELLOWSHIPS PROGRAMME

Instructions: The application form should be submitted by the appropriate governmental body and each part should be answered completely and

accurately. The application should be submitted in three copies. The information requested should be either typed or written in ink in block capitals. Where additional space is needed, a separate sheet should be used and attached in three copies.

A. Official presentation

The Government of	presents herewith
the candidature of	for a UNESCO fellowship
in the field of	
for a duration of	to begin
under Programme and/or Project	
The undersigned certifies that it is the Government's intention to have organized a programme of study such that will permit the candidate to increase his contribution to the development of his country in the future. If a fellowship is granted, the Government will: (a) provide the necessary assistance to the fellow for departure to begin the study programme;	 (b) assist the fellow in meeting personal and family responsibilities during the period of his fellowship by maintaining, if necessary, continuation of the whole or part of his present remuneration; (c) facilitate employment of the fellow in the assignment mentioned in this application upon completion of the fellowship. It is certified that information contained herein is complete and accurate.
PRESENTED FOR:	BY:
(seal)	Name and title of responsible officer
Date	Signature

B. Background data concerning the candidate

Family name (surna	ame)	First an	nd middle names		Nationality		Occupation
						т	
Permanent address				Telephone			
				E-mail			ease attach photo here
Mailing address(if different from above)					(0)	ptional)	
Date of birth day month	year	Country and	place of birth		Sex		
Marital status	Full name of s		Number and age o		accident	-	person to notify in case of

Education

Name, place and country	Years attended		Degrees, diplomas:	Date
of educational establishments	from	to	Degrees, diplomas: Indicate main subjects	obtained
Secondary, technical, etc.				
Post-secondary, university, or equivalent				

IMPORTANT: This application is not considered complete unless accompanied by certified copies of diplomas received and academic transcripts of courses followed and grades or marks obtained

Other studies

Mention any other studies undertaken, including training/refresher courses

Fellowships and scholarships

Which of the above studies were undertaken with a fellowship or scholarship? Mention the sponsor of the grant

Visits abroad

List any significant visits abroad not mentioned above

Publications and research

List any significant publications (including publisher and date of publication) and any major research projects undertaken

Languages

Mother tongue:

Other languages	Read		Understand (spoken)		Speak		Write	
Other languages	Easily	Not easily	Easily	Not easily	Fluently	Not fluently	Easily	Not easily

The UNESCO certificate of language knowledge should be completed and attached to this application

References

List three persons, not related to the candidate, who can provide information on his/her qualifications. These persons should normally be teachers or supervisors acquainted with the candidate's previous academic work

Full name	Title and address

Previous professional activities

	T		p	
Empl	over	Dates of service		Responsibilities
Linpi	oye,	From	То	Responsibilities
				
		F	Present p	osition
Name and address of	employer			Current duties
Years of service	From	То		
Exact title of post				
Annual salary				
Name and title of sup	ervisor			
Name and title of UNI (if any)	ESCO expert counterpa	rt		
C. Training ob			ature of	Should the studies be directed toward obtaining a diploma, degree
				or qualification or should the studies have mainly a practical or applied orientation?
	include preparation of cial equipment required		other piece	of research?
		Р	Place(s) c	of study
In order of preference undertaken	, suggest countries of			hem any preferences for institutions where the studies could be
1.	2. and/or			3. and/or
(others)				
For what reasons are t	the institutions listed at	oove being r	oroposed?	
Mention any previous	contact with these insti	tutions and	attach confi	rmation of admission, if available
IMPORTANT: Any furth	er contact for the fello	wship progra	amme should	d be made only through UNESCO

Details of proposed studies

The standard congrete sheets should be attached)

(ii additional space is needed, separate sheets should be attached)
Give precise details of studies to be undertaken
Give realistic budget estimates for the fellowship requested (return travel, monthly allowance, tuition fees, etc.)
Expected results and future assignment
Indicate how it is envisaged to make the best use of the results achieved and specify what position will be taken up at the end of the fellowship with a description of future responsibilities
Candidate's statement
If UNESCO grants me a fellowship I agree to take up after my period of study the position to be assigned to me as described above. I certify the information I have provided is complete and accurate
Candidate's signature
Canadate 3 Signature



United Nations Educational, Scientific and Cultural Organization

7, place de Fontenoy, 75352 Paris 07 SP telephone: (33.1) 45.68.10.00

APPLICATION FOR FELLOWSHIP

CERTIFICATE OF LANGUAGE KNOWLEDGE

droop	of candidate		
(1)	ABILITY TO UNDERSTAND	·	
	 (a) Understands without difficulty when addressed at (b) Understands almost everything, if addressed slow (c) Requires frequent repetition and/or translation of (d) Does not understand spoken language 	vly and carefullywords and phrases	
(2)	ABILITY TO SPEAK		
	(a) Speaks fluently and accurately and is easily intel(b) Speaks intelligibly, but is not fluent or altogether(c) Speaks haltingly, and is often at a loss for words	accurate	
(3)	ABILITY TO WRITE		
	(a) Writes with ease and accurately(b) Writes slowly and/or with only a moderate degree (c) Writes with difficulty and makes frequent mistake	of accuracy	
(4)	READING ABILITY AND COMPREHENSION		
	 (a) Reads fluently, with full comprehension	he readsurse to the dictionary	
(5)	TECHNICAL LANGUAGE		
	Certain fellowships require a particular knowledge of splease evaluate candidate's ability with reference to particular knowledge.		
(6)	Please indicate any further facts about candidate's landevelopment of his programme:	guage knowledge which may be of value in the	
NGUA	GE TEST HAS BEEN MADE BY	Address:	
me:			······································
		_	
	NTS:		