

SPEAK OUT FOR ENGINEERING

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“Speak Out for Engineering” Presentation Competition

Chinese Mainland

“Speak Out for Engineering” presentation competition is organized annually by the Institution of Mechanical Engineers’ Volunteer Network. It was originally established in 1964 to challenge young engineers to prove that they could ‘communicate effectively’, which is still an important area for today’s developing engineers. In 1977 Her Majesty gave permission for the competition to be known as ‘The Queen’s Silver Jubilee Competition’ (QSJ). The Competition has been adapted over the course of time to allow for greater participation, but the original theme of ‘communicating effectively’ still remains the emphasis of the competition and in 2004 changed its name to ‘Speak Out for Engineering’ Presentation Competition (QSJ).

“Speak Out for Engineering” presentation competition (China’s mainland region) will be conducted in University of Nottingham, Ningbo, China on March 6th 2009 (Saturday). In current time both two student chapters has selected competitors to join in the competition, and now the competition is open to applications from students of difference universities.

Organizer

Institution of Mechanical Engineers Student Chapter of University of Nottingham Ningbo, China

Co-organizer

Institution of Mechanical Engineers Student Chapter of China Agricultural University Division of Engineering, the University of Nottingham Ningbo, China

Application qualification

Competitors must be the Institution of Mechanical Engineers’ affiliate or associate member, or a member who has been professionally registered for 10 years or less.

N.B. the organizer will only assist in affiliate membership application (including filling in the application form and sending it to the headquarter in UK), for more details please refer to Appendix III-- Membership Application Guideline.

Competition form and requirements

During the competition, participant will provide a talk about subjects related to engineering in the form of individual presentation in English. The duration of the presentation must not exceed 20 minutes, followed by 10 minutes for discussion and questions from a panel of judges. While marking the presentation, 90% of the total marks are given for presentation while 10% for technical content.

Prizes

First Prize: £200 + Certificate

Second Prize: £100 + Certificate

N.B. The winner of first prize will also obtain the opportunity to participate in “Speak Out for Engineering” Asia-Oceania region competition held in Singapore in April 2010.

Application procedures

1. Applicants should fill in the application form including an abstract of the presentation (there is one sample in Appendix IV) and send it to the organizer: IMechE.Chapter@nottingham.edu.cn

Deadline for application: 12:00pm on January 24th 2010 (Sunday).

2. The panel of judges of the competition will examine all the abstracts and then select the competitors of the Chinese mainland competition. The name list will be announced officially before 6th February 2010.

3. For those who is neither the Institution of Mechanical Engineers’ affiliate and associate member, nor a member who has been professionally registered for 10 years or less, the organizer will only assist in affiliate membership application (including filling in the application form and sending it to the headquarter in UK). For more details, please refer to Appendix III--Membership Application Guideline.

N.B. Considering the registration work needs the sealing from universities, the organizer advices participants to finish filling the application form in campus.

Competition supervision

In order to keep the fairness of the competition, the Committee of Competition Supervision will supervise the entire “Speak Out for Engineering” presentation competition (Chinese mainland). The mailbox of the committee is:

UNNCStudentChapter@imechenetwork.org

Competition Review

On April 4th 2009, Hao Rui, an environmental engineering year 1 student from University of Nottingham, Ningbo China, took part in the Asia Oceania presentation competition "Speak out for Engineering". This was held in Kuala Lumpur, Malaysia by the Institution of Mechanical Engineers (IMechE), Malaysia Branch, Young Members Section. Despite being the youngest speaker in the competition, she delivered a high quality presentation on the "Application of Renewable Materials" winning praise from both the audience and judges. More information about that, please visit:

<http://www.nottingham.edu.cn/news.php?n=296&changelang=en>



'SOFE offered me a wonderful and vast international stage. Though the competition only lasted for six days, I met many respectful and outstanding engineers and communicated with them, which gives me a better understanding about engineering.'

—Hao Rui, the UNNC participant of the last SOFE Asia Oceania competition

For more information, please visit the official website:

http://www.imeche.org/industries/prizeaward/Speak_Out_for_Engineering/Introduction.htm

Or feel free to contact us:

IMechE UNNC Student Chapter

Address: AB234 University of Nottingham Ningbo, China 199

Taikang East Road, Ningbo, China

Email: IMechE.Chapter@nottingham.edu.cn

UNNCStudentChapter@imechenetwork.org

Appendix I Institution of Mechanical Engineers

Institution of Mechanical Engineers

The Institution of Mechanical Engineers (IMechE) was founded in 1847, and is the first mechanical engineering professional society in the world. The Institution has been the home of Mechanical Engineers for 160 years. The Institution of Mechanical Engineers is the United Kingdom's qualifying body for mechanical engineers.

The Institution of Mechanical Engineers is the fastest growing professional engineering institution in the UK. Its 80,000 members work at the heart of the country's most important and dynamic industries.

With a 160-year heritage supporting it, today's Institution is a forward-looking, campaigning organization. Being independent of both government and business, IMechE avoids strategic relationships with single-issue bodies or pressure groups, so IMechE can deliver genuinely impartial advice in a passionately committed manner. By working with leading companies, universities and think tanks, IMechE creates and shares knowledge to provide government, businesses and the public with fresh thinking and authoritative guidance on all aspects of mechanical engineering.

IMechE truly believes we can improve the world through engineering. So the Institution finds and nurtures new talent, helping engineers build their careers and take on the challenges that, when solved, will make a difference to all of us.

In the UK, engineering has achieved great successes, but in a quiet way. IMechE is looking to shout about the achievement so fits members and the industry, taking a positive, inspiring message into schools and out into the media.

Principal themes

As an Institution, IMechE focuses on four principal themes which affect and are affected by our engineers: Energy, Environment, Transportation and Education.

Events and Training

IMechE goes to great lengths to promote the profession at grass roots level, engaging with the next generation of mechanical engineers to build a brighter future for us all. Initiatives IMechE owns or is involved in to achieve this include: Formula Student, Greenpower, Science and Engineering Ambassadors, Engineering Your Future events, and Ingeneration. Every year, the institution gives Prizes and Awards worth in excess of £400,000 to help nurture the UK's engineering talent. The Institution's Prizes and Awards Fund offers amounts ranging from £250 to £10,000. The institution celebrates the successes of the most inspirational students through the Vision Awards which take place in October. The Institution is committed to providing the best possible service



for its members, ensuring that they have the skills, knowledge, support and development advice they need at every stage of their career. Throughout the year, the institution organizes a comprehensive series of events (technical conferences, seminars, workshops and social functions) which are designed by engineers for engineers. Its dedicated programs of professional development training enables the members to navigate successfully through their initial professional registration, and then helps engineers to retain their competencies and keep their skills up to date through structured learning throughout their working lives.

N.B. For more information about IMechE, please visit <http://www.imeche.org/>

Appendix II Introduction of University of Nottingham Ningbo,

China

The University of Nottingham Ningbo, China is the first Sino-Foreign University in China with approval from the Chinese Ministry of Education. It is run by The University of Nottingham UK with cooperation from Zhejiang Wanli Education Group-University.

Mission Statement

The University of Nottingham Ningbo's mission statement is "Academic Excellence in the Service of Global Citizenship". This means that The University of Nottingham Ningbo, China has committed itself to developing subjects that combine internationally ranked teaching and research excellence with Chinese needs for internationalization and globalization. This allows Chinese students to enjoy a world-class international education without the major expense of studying abroad. All undergraduate and postgraduate programs in Ningbo are conducted entirely in English with the same teaching and evaluation standards as at Nottingham UK. The University has the Centre for English Language Education (CELE) dedicated to teaching English for Academic Purposes.

Location

The University is located in Ningbo Higher Education Park on a newly built and dedicated campus with a land area of 887mu. It currently has over 4300 undergraduate and postgraduate students and more than 300 teaching and administrative staff from over 30 countries in the world. Chinese undergraduate students are selected from 23 different province using the Gao Kao. Division 1 is required.

Research

The University is active in research, collaborating within China and Internationally. Significant collaboration exists with The University of Nottingham UK. Indeed one of aims of The University of Nottingham Ningbo's Research is to bring the Research expertise of The University of Nottingham UK to China. Currently the University has a series of research institutes: Institute of Asia Pacific Studies, Institute for Comparative Cultural Studies, Centre for Research in Applied Linguistics, The Ko Lee Institute of Sustainable Development, Centre for Global Finance, Learning Science Research Centre, International Centre for Behavioral Business Research, the International Finance Research Centre and the Leverhulme Centre for Research on Globalization and Economic Policy.



Internationalization

Internationalization is at the heart of the development of The University of Nottingham Ningbo, China: we have an increasingly international student body as well as a growing international teaching team. The University now has more than 180 international students from different countries. In the longer term we are aiming for 25% of the student population to be international. Our internationalization policy also means that students have the opportunity to study at The University of Nottingham UK or to go as exchange or study abroad students to study at other top universities around the world.

Appendix III Membership Application Guide

Qualification

Engineering related students

Application Fees and subscriptions

For undergraduate students in full-time education, it is free to apply for affiliate members and there is no annual fee. For other situations, please visit:

<http://www.imeche.org/membership/Become+a+member/Membership+Subscriptions+2010.htm>

As a member of IMechE, you will benefit from:

- International recognition of personal professional competence
- Prizes and awards worth in excess of £400,000 every year to support members' educational and development needs
- Full use of the Institution's Business Centre
- Exclusive discounts on technical publications
- Technical development and management conferences and seminars with a network of technical and social contacts in the UK and overseas
- Its wealth of information providing you with the information you need both quickly and cost effectively

Form filling:

1. Print application form in the attachment and fill the form according to the instructions on the example below.
2. On the example, the blanks with red mark are compulsory for you to fill in.
3. All the information must be written in English, except the signature in back side (use you own language).
4. Form must be stamped by academic office of your university.

Post

After completing your form, post it to the organizer:

Wang Sufang

No. 234 Administration Building

University of Nottingham, Ningbo, China

199 Taikang East Road University Park

Ningbo, CHINA

Postcode: 315000

Deadline: January 24th 2010 (according to the post data)

Membership number:

Organizer will send applications to IMechE headquarters. Three weeks later applicants will receive an email from IMechE containing personal membership number.

More information about membership, please visit:

<http://www.imeche.org/membership/>



Sample of IMechE affiliate membership application form

AFFILIATE APPLICATION FORM

STEP 1: APPLICANT DETAILS

All sections of this form must be typed or completed in **black ink** in block letters. If the form is incomplete, this will delay your application and the form may be returned to you.

Designatory letters
eg BEng, OBE

Membership number
(if already a member)

Title: Mr/Mrs/Miss/Ms/Dr Mr or Miss

Forename first name 名

Surname family name 姓

Date of birth 生日

Address home address 家庭地址

Country 国家

Postcode home postcode 家庭邮编

Term address (if different) university address 学校地址

Country university country 学校国家

Postcode university postcode 学校邮编

Home email 家庭邮箱

University email 学校邮箱

Home tel 家庭电话

Mobile 手机

Please indicate if you are participating in the following schemes.

Government approved pre-University Year in Industry

Formula Student competition

Accredited scheme for Monitored Professional Development (MPDS). I enclose an MPDS registration form with this application

IMechE Approved Development Scheme for Engineering
Please insert scheme number _____

**STEP 2: STUDENTS AND APPRENTICES
CURRENTLY IN EDUCATION**

This section must be completed in full together with sections 4 and 5. Please complete details of qualification currently studying for.

College/University 学校名称

Type of qualification and level
(eg NVQ level 3, BEng, MEng) BEng (工学士)

Full title of course
(eg Mechanical Engineering) 专业

Course type F/T (全日制)
(eg F/T, P/T, sandwich)

Which year did you enter the degree 1st (一般都为第一年入学)
1st / 2nd / 3rd / 4th

Date of admission to course
(excluding foundation year) 入学日期

Expected date of completion / graduation 毕业日期

Regional Manager signature / College or University signature or stamp
学校盖章

STEP 3: NON-STUDENTS / APPRENTICES ONLY

This section must be completed in full together with sections 4 and 5.

Company name _____

Job title _____

Company address _____

Country _____

Postcode _____



STEP 4: DATA PROTECTION ACT

IMechE will hold your personal data (for example, your contact details, areas of engineering interest and details of your academic record and employment experience/history) on its computer database.

This information may be accessed, retrieved and used by IMechE and its associates for normal administrative purposes (for example, processing your membership application/renewal and contacting you in respect of your membership), and conducting market research. If you are based outside the European Economic Area (the "EEA"), information about you may be transferred outside the EEA.

IMechE may also periodically send you information on events, conferences and publications you may be interested in. If you do not wish to receive such information, please tick this box.

IMechE may also provide your personal information to carefully selected third parties (a list of whom is available on request) in order to provide you with information for non-IMechE events, conferences, publication and various affinity benefits. Where possible, the information sent to you by third parties will be targeted to focus on your likely interests. However, if you do not wish to have your personal details used in this way, please tick this box.

STEP 5: ENGAGEMENT

To be signed by applicant. Please read carefully.

I, the undersigned, certify these statements are true, and do hereby agree that in the event of my election I will be governed during my membership by the Royal Charter and By-Laws of IMechE, as they are now formed or as they may hereafter be altered, and that I will not use any titles, abbreviated titles or descriptions associated with IMechE. I understand that I will not be entitled to use any designatory letters in connection with Affiliate to IMechE.

I further understand that I will pay my annual subscription as prescribed in the By-Laws, and if at any time I shall desire to withdraw from the Institution I will forthwith pay all arrears of subscription or other payments due from me.

Signature use your own language 中文签字

Date 签字日期

Please return completed forms to:

Membership applications
IMechE
1 Birdcage Walk
London SW1H 9JJ
T 0845 226 9191
F 020 7090 1001
E membership@imeche.org
Overseas callers +44 (0)20 7090 1078
www.imeche.org

Please note

University students

All details of your degree programme must be recorded accurately on this application form to enable us to identify if IMechE accredits your degree. If you are studying an undergraduate engineering degree you will receive free membership of IMechE. Incomplete information may result in you being charged for an annual subscription.

Please ensure you notify us by email if there are any changes to your studies, eg changes of degree programme or expected graduation date.

Apprentices

All details of your apprenticeship must be recorded accurately on this application form to enable us to identify if IMechE approves your apprenticeship. If you are completing an engineering apprenticeship you will receive free membership of IMechE. Incomplete information may result in you being charged for an annual subscription.

Please ensure you notify us by email if there are any changes to your apprenticeship eg date of completion.

Non-students

An application fee must accompany this form. This fee is non-refundable and does not include the annual subscription. Details of our current fees can be found on our website.

Cheques should be made payable to IMechE and crossed 'A/C payee only'.

Don't forget

Students

Have you obtained the College/University signature or stamp or the IMechE Regional manager's signature in section 2 of the form?

MPDS applicants

Have you enclosed the MPDS registration form and payment for MPDS registration?

Non-students

Have you enclosed the application fee?

Appendix IV Sample of Presentation Abstract

Application of Renewable Building Materials

Within the last two decade we have seen the economy of the world and especially china goes through a rapid expansion. However, much of this success has been built on the basis of growing environmental problems, resulted in devastating ecological destructions, black or contaminated rivers, smog and ozone depletions.

Not long ago, the 29th Olympic Games held in Beijing are thought the greenest one in Olympic history, in which many renewable materials were used as well as advanced technology to save energy and to maximize cost efficiency. The Water Cube which is built using ETFE (Ethylene tetrafluoroethylene) is introduced in detail as a typical example of renewable building material. Other applications of renewable building materials in China and other parts of the world are described, highlighting the Shanghai Grand Theater, for its special sanforized colored glazing and Jindu City for its Ethafoam installations. Last but not least the presentation will also discuss the usage of WPC – Wood and Plastic Composite, highlighting its advantages and its application distribution across the provinces in China.