

FEANI

The Editor – What happened during the last months



FEANI Secretariat General

No doubt, 2004 has been a good year for FEANI.

Indeed, concerning “FEANI internal activities”, all our Strategic Projects on Communication, Education, Competence, Services for Engineers and Transparency, as approved by the FEANI

National Members at the General Assembly in 2003, have been implemented. Most of them are today already in operation. To illustrate, let us look at a few of them.

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‘Communication’

The monthly FEANI Flash Info is now well established. It is distributed directly from the Secretariat General to over 2000 e-mail addresses all over Europe. Furthermore, FEANI agreed to a request from the Russian Engineering Association RAEE who now translates it in Russian for local distribution.

The permanent improvement and maintenance of the **FEANI website**, keeping the data always up to date, has turned it into a major communication tool inside and outside the Federation. In 2004, an average per month of 35.000 (thirty-five thousand) visits, each downloading some of the pages, were reported. Besides Europe, most of the website visits came from USA, Japan and China.

‘Education’

Besides continuing the activities of ESOEPE, the major achievement concerned the award by the European Commission’s DG Education & Culture of the EUR-ACE project on Accreditation of Engineering Programmes and Graduates to a consortium with FEANI as the legal representative. This project aims at establishing a “European label” for accredited educational programmes and graduates (for detailed information on the project see www.feani.org, under ‘EUR-ACE’).

‘Competence’

An internal working group finalized a major contribution on this subject. It is now available as a FEANI publication to be distributed at engineering events.

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- I **'Services for Engineers'**
Several services launched in 2003 have been complemented in 2004. They concern at European level (versus National level) 'job search' and 'job offers', now posted on the FEANI website. The website also includes links to recruitment companies and to important websites from the EU Institutions giving for each EU country detailed information on the conditions to access to the profession, the administrative steps in order to obtain equivalence of academic degrees, etc.
- I Furthermore, a first publication concerning the **"Market Place for Engineers in Europe"**, following an inquiry among FEANI National Members has also been published. However, additional data are still needed to make it statistically significant.
- I **'Transparency'**
A major investigation among all the Institutes recognised by FEANI as providing a valid engineering education and listed in the FEANI INDEX has been undertaken. This concerns about 1000 Institutes in the FEANI member countries who were invited to verify the content of their data

kept in the INDEX and more particularly the engineering courses they offer. All the requests for modifications received following the investigation have been taken into consideration and those accepted by our EMC have been introduced in our database. The INDEX, which is regularly updated, is available either as CD ROM or can be consulted via password/user ID. It is worthwhile to mention that today some major European companies in automobile, aeronautics, electricity/electronics, ... use the INDEX as help for their recruitment of Engineers. Recently, in the framework of the implementation of the Bologna system offering additional mobility for students, the INDEX was considered by some universities as a good tool to advise engineering students on good education opportunities in other institutes.

In the framework of the promotion of the **EUR ING**, the professional title granted by FEANI, new leaflets in English, French and German were published. We are also pleased to see in 2004 an increase of interest in EUR ING resulting in a significantly higher number of EUR ING awards than anticipated for that year.

The year 2004 was also significant as far as the wide and most constructive debate with our National Members is concerned regarding the appropriate answer FEANI should give to the EU Directive on Recognition of Professional Qualifications. All FEANI National Members participated to this debate.

"FEANI external activities"

It was decided in 2004 to increase the visibility of FEANI by, for instance, participating and presenting position papers in major world-wide engineering events. This corresponds also to a request from our National Members, which can now be satisfied thanks to our sound financial situation. Among others, we can mention the participation of FEANI in the World Engineer's Convention (WEC), 2-6 November 2004 in Shanghai (China), with contributions concerning "European academic accreditation" and "FEANI professional accreditation". The international activities will continue in 2005 with a major event being organised by FEANI in collaboration with Deutsche Messe AG on 11 April 2005, a European Summit Meeting dedicated to "The Engineer in Europe" (See p.16)

I Philippe Wauters, FEANI Secretary General

SURVEYS and COMPARATIVE ANALYSIS in the framework of the draft Directive on Recognition of Professional Qualifications (see also p.16)

Following the guidelines received from the EC, several surveys have been undertaken to understand clearly the operational context of the engineering profession all over EU and to identify the qualifications criteria to consider for waving the potential compensation measures imposed by some Member States in case of mobility.

- The first study concerns the existing REGULATIONS which are constraining mobility as well as the protected professional titles and their reserved tasks, ...
- The second one consists in a comparative analysis of the different ENGINEERING EDUCATION SYSTEMS, ...
- The third and the more complex one is a comparative analysis of the ACTIVITIES performed by each type of engineers.
As a preliminary, a list of European Engineering Discipline Clusters (EEDC) has been established to regroup different engineer profiles (not based anymore on academic diplomas but on qualifications).

Indeed, the compliance for engineers with the mobility criteria will constitute a passport allowing them to work everywhere in EU under the same conditions as if they were working in their Country of Origin where their education and experiences have been gained and recognized. It is what is called the 'Free movement of Workers' and 'Free movement of Services', two pillars of the EU Internal Market that would also apply automatically for all professional engineers.

The 3 surveys are ongoing and their results are periodically discussed within EMC and the Executive Board.

To fulfil these tasks, the Feani General Secretariat has been reinforced, for a short term period, by **ir Léon Jean Blaffart** (seep.16) who anticipates to contact the National Members through additional questionnaires and bilateral contacts.

In that respect, he thanks the National Members beforehand for the establishment of a fruitful collaboration.



Inauguration of The Automobile Technology Center (ATC-Mercier) at the Institute De Nayer

Ing. Luc Van Goidsenhoven, Chief of the technologic department, presented the history of a quarter of a century of higher education in automobile technology.

Thanks to this new engineering education at the ATC, the students who started as professional Bachelor in the Automobile technology can continue the next academic year an "Automotive Engineer" cycle and will be at level with the fast evolution of

the technology in the Automobile industry.

The brand new infrastructure of the ATC is fully equipped with the ultra modern material of the Automobile technology.

For this new year, the number of students is twice as much as in the past academic year.

M. Luc De Moor, General Director of EDUCAM, was stressed the importance of an adequate education in the automobile sector. According to the speaker, in the automobile sector the number of employees will be reduced but qualifications will increase both for technicians and managers. The new ATC will respond perfectly to the need of the fast growth of the technology in the sector and be able to assure a combination of practical, organisational, logistics, finance and management skills required by the evolution of the automobile market.

Mrs Renilde Craps, director of the Flander's Drive Network put the stress on innovation as a must to survive in the technological domain of the automobile industry.

Other lectures have also explained the vision of our mobility in the future.

■ **Alfons Vekemans**

President of the Belgium FEANI National Committee

The "De Nayer Institute" is a campus of the "Hogeschool voor Wetenschap en Kunst", Institute for Higher Education "Sciences and Arts", associated with the Catholic University KU Leuven, Belgium.

The De Nayer Institute provides education in the area of industrial Sciences and Technology while the other Institutes offer education in Architecture, Sculpture, Economy, Finance, Music, Philology and Education.

Thanks to this unique and various structure the Institute for Higher Education on academic level gains importance at European as well as at international level and tries to reach the highest standards in quality of education.

At an Academic session on 12 January 2005, the brand new ATC (AutoTechnologisch Centrum) at the De Nayer Institute has been inaugurated. More than 300 persons representing the automobile sector participated to this event.

Several speakers were invited and put the stress on the importance of the automobile industry.



Die neuen Schweizer Fachhochschulen

Die 25 HTLs, Höhere Technische Lehranstalten, sind gemäss dem neuen Fachhochschulgesetz in 7 Fachhochschulen zusammengefasst worden.

Ziel ist es, in jeder Fachhochschule nur je eine Ingenieurrichtung anzubieten um auf diese Weise den Aufwand zu rationalisieren.

In einem Schritt sind im Januar 2005 im FEANI INDEX die Namen der Teil-Fachhochschulen geändert worden, die Adressen bleiben bis auf weiteres unverändert. Auf 2006 wird die neue Struktur eingeführt mit den Adressen der 7 Fachhochschul-

Administrationen. Anschliessend wird eine Periode folgen, in der die angebotenen Studiengänge überprüft, und in der Angebote der einzelnen Teil-Fachhochschulen gestrichen oder neu eingeführt werden, voraussichtlich bis Ende 2006.

Die Struktur der beiden Eidgenössischen Technischen Hochschulen, ETH Zürich und EPF Lausanne, bleiben unverändert, einzig der Studienablauf wird dem Bologna System mit Bachelor- und Master-Abschluss angepasst.

Der Schweizer EUR ING Club

Der EUR ING Club Schweiz wird nächstes Jahr sein 10-jähriges

Bestehen begehen. Erneuert und verjüngt wird dieses Jahr, nach Möglichkeit, der Vorstand um neue Impulse zu erhalten; am allgemeinen Konzept wird jedoch nichts geändert. Zwei Tagungen mit Besichtigung eines ingenieurmässig interessanten Projektes werden angeboten. Für dieses Jahr in der Ost-Schweiz die Meteorologische und Fernmeldestation auf dem Säntis (2502 m.ü.M.) und an der ETH Lausanne die Forschungsstelle für die beiden Hi-Tech Projekte "Allinghi" und Solarflugzeug Piccard. Die Generalversammlung 2005 findet in Zürich statt, zusammen mit dem 150-jährigen Jubiläum der ETH.

■ **Santiago Schuppisser**
Generalsekretär Schweizer NM



ANNUAL BUSINESS MEETINGS

IN MALTA

■ Summary

FEANI's Annual Business Meetings 2004 were held in Malta **from 29 September - 1 October 2004** and included: meetings of the two Standing Committees of FEANI, namely Continuing Professional Development Committee (**CPDC**) and European Monitoring Committee (**EMC**); two meetings of the **Executive Board**; a meeting related to the '**Common Platform**' draft proposal in the framework of the **EU Directive on Recognition of Professional Qualifications** (COM(2002)119final); a meeting on '**Competition in Professional Services** COM(2004)83final'; and an **Academic Session on 'Quality in Engineering Education'**. The FEANI Annual Business Meetings ended on 1 October with the General Assembly (followed by the second Board Meeting). The location and organization by the Maltese National Member provided an excellent framework for the meetings.

■ European Monitoring Committee (EMC) - 29 September 2004 -

In its meeting on 29 September 2004, the EMC discussed among other topics the draft Directive on 'Recognition of Professional Qualifications'; the EUR-ACE project; EMC membership; and issues related to the FEANI Register (the database including EUR ING's) and the FEANI INDEX (the database including schools and courses fulfilling the standards for engineering education set by FEANI). [Note: By end of 2004, the FEANI Register listed a total number of **28,217 EUR ING's**. The **INDEX** contains 9932 recognized engineering courses and 2951 disciplines at 972 recognized higher education institutes]. Regarding the update of the INDEX, several working groups presented their results for different countries.

■ Meeting on EU Communication 'Competition in Professional Services COM(2004)83final' - 30 September 2004 -

This session referred to a consultation meeting FEANI had with the EU Commission's DG Competition on 23 July 2004. The objective of the Commission had been to identify possible regulations, either set up by Member States or by professional bodies, which have become obsolete and where necessary, to get rid of them. In this context, it had asked FEANI for the engineering profession to comment on a study that had been made by an external expert to the Commission.



All FEANI delegates and guest being hosted to a most enjoyable open-air dinner next to the main pool at the Radisson BayPoint Resort by the Chamber of Engineers of Malta.

■ Executive Boards

- 29 September and 1 October 2004 -

Two Board meetings were held in Malta, one before and one after the General Assembly. One main topic of the meetings was the proposed **Directive COM(2002)119 final**, and, in the meeting just after the General Assembly, the conclusions of the discussions at that meeting. Further topics on the agenda of the Board meetings were related to Strategic Plan activities; **participation in international initiatives/meetings (e.g. WFEO, EMF, ...); accreditation activities (ESOEPE - European Standing Observatory for the Engineering Profession and Education; the EU Commission funded project EUR-ACE - Accreditation of European Engineering Programmes and Graduates);** the new initiative to collect and summarize information relative to **European engineering data**; and the usual review of the financial situation.

FEANI had thus sent a questionnaire on 'Competition in Professional Services' to its National Members asking for answers from a National engineering point of view. As until the end of September 2004 only a few National Members had answered to the questionnaire, the meeting in Malta could not provide a comprehensive basis for discussion. [Note: In the meantime, the questionnaire has been completed by 21 countries. The results were presented to the EU Commission on 16 December 2004 and have also have been made available on the FEANI website www.feani.org under '**Surveys**': "*Survey Competition in Professional Services*".]



■ Meeting on the Common Platform Document – 30 September 2004 –



The **Hon. Ninu Zammit**, Minister for Resources and Infrastructure for Malta (centre) opening the General Discussion on the Common Platform, together with **Ing. Kostantinos Alexopoulos**, FEANI President (left) and **Mr. Philippe Wauters**, FEANI Secretary General.

The Executive Board presented to the delegates for discussion a draft 'Common Platform' document based on the experience gained with the EUR ING system. This 'Common Platform' relates to Section 15 of the draft Directive COM(2002)119 final on 'Recognition of Professional Qualifications', proposed by the EU Commission and currently in discussion at the EU Parliament and Council. This, if adopted, would allow professional organizations to present in a so-called 'Common Platform' a set of requirements they judge mandatory for a professional to fulfill in order to be recognized as being a 'good professional' in his field, in which case a host country should not apply any compensation measures for the professional who fulfils those requirements. In the discussion, many National Members expressed their general support for this proposal.

The Secretary General presented new information received from the EU Commission's DG Internal Market entitled 'guidelines for setting up a Common Platform'. In view of these guidelines, it was concluded that as a first step extensive survey activities were necessary for finalizing the Common Platform draft document.

■ Academic Session on Quality in Engineering Education – 30 September 2004 –



The **Hon. Clarie Thomas Curtis** (centre), British Member of Parliament, who happens to also be an engineer, making a surprise visit to the FEANI ABM together with **Ing. Alexander Tranter** (left), President of the Chamber of Engineers of Malta and **EUR ING Kostantinos Alexopoulos**, FEANI President.

The session was shared by Prof. Paul Micallef, Chamber of Engineers (Malta). The following presentations were held:

Mr. René-Paul Martin (Commission des Titres d'Ingénieurs, France): Quality, Evaluation and Accreditation of Engineering Programmes by the 'Commission des Titres d'Ingénieurs' (CTI);

Prof. Robert Ghirlando (University of Malta): Quality in engineering education and the second law of thermodynamics;

Mr. Denis McGrath (Institute of Engineers, Ireland): Accreditation Criteria for Engineering Education Programmes based on Programme Outcomes and Mr. Philippe Wauters, Secretary General FEANI: Project EUR-ACE: Accreditation of European Engineering Programmes and Graduates

■ Continuous Professional Development Committee (CPDC) – 29 September 2004 –

During the 34th CPDC meeting, the CPDC Chairman submitted to all members his report to be presented at the General Assembly. It was discussed and slightly updated accordingly. Reports of the different project groups were also presented. The working plan for the year 2004/2005 was discussed during a brainstorming session. Dr. Ginzler (HU) informed all the participants on the 7th WFEO World Congress on Engineering Education – 'Mobility of Engineers' to be held in Budapest in March 2006, and insisted on the need to have CPDC representatives to help in the organisation of the Congress.

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ANNUAL BUSINESS MEETINGS

IN MALTA



The FEANI Executive Board Members and the Hon. Prime Minister of Malta Dr. Lawrence Gonzi (center) opening the General Assembly of the FEANI Annual Business Meetings held in Malta.



Some of the FEANI delegates at the General Assembly.



Ing. Alexander Tranter, President of Chamber of Engineers of Malta, (far left) together with EUR ING Konstantinos Alexopoulos, FEANI President, welcoming all FEANI delegates and special invited guests to the Gala Dinner.

General Assembly (GA)

- 1 October 2004 -

The General Assembly was inaugurated by the **Prime Minister of Malta, Mr. Lawrence Gonzi**. On behalf of the Executive Board, the President, Mr. Alexopoulos, welcomed delegates from 25 National Members. The Estonian National Member could not attend and had sent apologies.

The Executive Board as well as the two Standing Committees (CPDC and EMC) presented to the delegates for information reports on their activities in the past year. The Chairmen of the Working Groups on 'Competence' and 'Employability' also informed about the results of their work. The Secretary General presented an Action Plan 2005/ Strategic Plan, including an EU financed project on European Accreditation (called EUR-ACE), which was acknowledged and supported by the delegates. Discharge was unanimously given to the Executive Board Members and to the Internal Auditors.

The General Assembly supported the continuation of the Strategic Projects. In order to foster communication and transparency, it asked the Board to implement a project regarding the collection and condensation of essential information and statistics related to the National Members and the engineering profession as well as to follow the proposal to translate key definitions from the document on Competences in different languages. It also inspired the Board to increase FEANI's international visibility and engagement within and beyond Europe, e.g. by participating in international conferences.

On Financials, the General Assembly unanimously approved the Results and Balance for 2003, which reflected an overall comfortable financial situation. The Results as at 30 June 2004 and the Balance Forecast 2004 were presented for information.

The General Assembly unanimously approved the 2005 Budget, which includes the continuation of the Strategic Projects and the EUR-ACE project. The membership fees for the National Members as well as the Register fees (the amount FEANI charges to its National Members for EUR ING approvals) will remain unchanged as in the past year. The 5-years plan was presented for information. Some National Members expressed the opinion that a 3-years rolling plan would be a more suitable tool.

Quite some time and attention was devoted to discussions on different European Directives and consultation activities, namely related to: the Draft Directive on 'Services in the Internal Market' (COM(2004)84final); the new Directive on the 'Procedures for the Award of Public Works Contracts and Public Service Contracts' (2004/18/EC); a document from the EU Commission's Directorate General



(DG) 'Competition' on 'Competition in Professional Services' (COM(2004)83final); and last but not least on the Draft Directive from DG Internal Market on 'Recognition of Professional Qualifications (COM(2002)119final).

Regarding the latter matter, reference was made to the discussion which took place on this subject on 30 September concerning the 'Common Platform' proposal designed to facilitate the mobility of professional Engineers as well as to the recently received guidelines from the EU Commission to set up such a document. During the discussion, a proposal presented by the President of the National Member of Malta on behalf of some more National Members for a possible enlargement of the 'Common Platform' into a more 'multi-purpose' mobility document following a five point programme was discussed. The proposal was supported by the General Assembly, and it was unanimously agreed that it was up to the Board to implement the most appropriate answer to promote the mobility of the Engineers in Europe in the framework of the Directive.

Concerning the election of officers, for the two vacancies in the Executive Board, the General Assembly elected one new Board Member, Dr. Albert Wawrzyniak (PL), and re-elected Dott. Alcide Gava (IT) for a second term. Prof. Heinz Müller (CH) was elected Treasurer.

The General Assembly was furthermore informed that the Board had asked Prof. João Duarte Silva (PT) to continue his work as Chairman of the European Monitoring Committee (EMC) in a second term (as of September 2004) and had appointed him to this responsibility. They also took notice that the Executive Board, following the proposals of the respective National Members and the recommendation from the EMC, had appointed Messrs. Hediger (CH) for the Central Region Group and Grimson (IE), the latter replacing Mr. McGrath (IE) for the Northern Region Group, as Members of the EMC as of September 2004.

Next Annual Business Meetings



"Contact Dance Company" dancing at Gala Dinner

The 2005 Annual Business Meetings will be hosted by the FEANI National Member of Greece. For 2006, FEANI has been invited by the Czech National Member to Prague.



A general view of the FEANI delegates inside the Main Ballroom of the Radisson BayPoint Resort in Malta where the FEANI business meetings were hosted.



(From left to right) The Minister for Education Youth and Employment for Malta, Dr. Louis Galea, together with Ing. A. Tranter CoE President, Eur. Ing. K. Alexopoulos FEANI President and Dr. Ing. W. Fuchs FEANI Vice- President, enjoying a pre gala dinner drink.



FEANI delegates at the Gala Dinner

THE POLISH STATE ACCREDITATION COMMITTEE (SAC)

LEGAL BASIS

The State Accreditation Committee (SAC) was established on January 1, 2002, on the basis of Article 38, item 1 of the Act on Higher Education of 12 September, 1990 (Journal of Law No. 65, item 385 with further amendments). Its term of office is 3 years. The activity of the Committee covers all institutions of higher education which operates pursuant to the Act on Higher Education of 12 September 1990 and Act on Higher Education Vocational Schools of 26 June 1997. That are practically all the 350 State-owned (public) and non-State owned (private) institutions of Higher Education with the exception of military and police schools.

The progress of legislative work on acts regulating the functioning of the military institutions of Higher Education makes it likely that in a few months' time specialisations taught at those institutions, except for military studies, will be subject to evaluation by the State Accreditation Committee.

The Accreditation Committee for Higher Vocational Education, an autonomous body functioning at the Minister of National Education in the period of March 1998 until December 2001, was the predecessor of the State Accreditation Committee, in which the Polish Federation of Engineering Associations had its representative.



STRUCTURE AND STATUTORY BODIES OF SAC

The statutory bodies of the State Accreditation Committee are:

- individual bodies (President and Secretary), and
- a collegiate body (Presidium).

The **President** and **Secretary** are appointed and discharged by the Minister for Higher Education.

The **Presidium** is composed of President, Secretary and 10 chairmen of sections for degree programs (for Humanities, Physical Education, Natural Sciences, Technical Sciences, Mathematics, Physics and Chemistry, Agricultural Forestry and Veterinary Sciences, Economics, Social Sciences and Law, medical Sciences, Fine Arts. The section chairmen are elected from among the section members. The Presidium plays a particularly crucial role, as it decides on matters connected with the establishment of new schools or faculties and awarding ratings to the evaluated institutions.

TASKS OF SAC

According to Article 38 item 2 of The Act on Higher Education, the tasks of the State Accreditation Committee cover:

- a) drawing up opinions on applications concerning:
 - founding an institution of higher education;
 - establishing extramural branches of the institution;

TASKS OF SAC

- establishing new degree programs in existing institutions;
- ascribing specialisations to appropriate degree programs in vocational schools (until 30 September 2002 the Committee had been preparing opinions on motions regarding establishing specialties in higher education institutions acting on the basis of the Act on Vocational Schools of Higher Education of 26 June 1997).

b) evaluating the quality of teaching and verifying compliance with the requirements for Higher Education degree programs in all Polish civilian state-owned and non-state owned institutions of higher education, academic and vocational, supervised by the Minister of Higher Education, Minister of Health, Minister of Culture and National Heritage as well as Minister of Infrastructure.

c) giving approval for establishing and running new degree programs, different from those defined in the Decree of the Minister of National Education and Sports of 28 March 2002 on requirements to be met by an institution of higher education to establish and run a degree program as well as on names of degree programs (Official Journal No. 33, item 480).

For the complete text, including information on the procedures (stages of quality evaluation; procedure of evaluating applications by the SAC; ratings applied in the evaluation of the quality of teaching) and on the SAC guidelines on preparing a self evaluation report, please contact: **Teresa Domanska at the Polish National Member of FEANI: notdzg@not.org.pl**



Das Jahr der Technik – ein gutes Omen

Das „Jahr der Technik“ mit seinen fast 1600 Veranstaltungen gehörte auch für den DVT zu den Schwerpunktaktivitäten in 2004. Erklärtes Ziel der von Bundesministerin Edelgard Bulmahn initiierten Wissenschaftsjahre war für 2004, „Technik“ besonders der Jugend und einer breiten Öffentlichkeit näher zu bringen. Das Vorhaben scheint dringlicher denn je zu sein. Obwohl wir alle täglich Technik nutzen und von Technik umgeben sind, ist offensichtlich vielen der Zusammenhang von Technik und wirtschaftlichem Erfolg sowie Wohlstand und Arbeit nicht klar. Ich begrüße es deshalb sehr, dass sich gerade die technisch-wissenschaftlichen Vereine aktiv an der Gestaltung des Jahres der Technik beteiligt haben.

Dabei hat sich gezeigt, dass es nicht darauf ankommt, dass jeder das Jahr der Technik kennt, sondern dass die Botschaft über die Bedeutung der Technik für unsere Gesellschaft und für unser Land bei den Adressaten ankommt. Hierfür war gut, dass das Thema „Technik“ in seiner Vielfalt mit vielen Ausbildungs- und Studienchancen sowie beruflichen Möglichkeiten präsentiert wurde. Die zentralen Veranstaltungen in Berlin, Hannover, Hamburg, Dresden und Duisburg haben gezeigt, dass gerade Entdecken und Mitmachen das Interesse der Jugend wecken kann und die Faszination von und für Wissenschaft und Technik deutlich wird. Auch der Tag der Technik im Juni in Düsseldorf stand ganz im Zeichen von „Technik zum Anfassen“.

Die persönliche Beteiligung am Erstellen „der längsten Schweißnaht der Welt“ gehörte ebenso zum Programm wie das Mitmachen an einer Technik-Rallye oder das Formel-1-Feeling in entsprechender Simulation. Eine Reise in die Welt der kleinsten Teilchen ermöglichte der „Nano Truck“, in dem Nano Technologie auf spannende Weise demonstriert wurde.

Dabei ging es beim Jahr der Technik um mehr als nur Spaß zu vermitteln. Bedenkt man, dass Wirtschaftswachstum in erster Linie durch Innovation erzeugt wird und Wohlstand nur auf der Grundlage zukunftsweisender Technologien und neuer Produkte gesichert werden kann, wird das zentrale Ziel aller Aktionen im Jahr der Technik deutlich, junge Menschen frühzeitig für Technik zu begeistern.

Für uns, den technisch-wissenschaftlichen Gesellschaften und dem DVT selbst, bleibt die Aufgabe, auch nach dem Jahr der Technik in einem gesamtgesellschaftlichen Dialog deutlich zu machen, dass Technik und Wissenschaft über Deutschlands Zukunft entscheiden.

Ich verbinde diese Gedanken auch mit dem Wunsch, dass Technik und Naturwissenschaften miteinander in Verbindung bleiben mit dem gemeinsamen Ziel, dass die Ergebnisse ihrer Arbeit den Menschen und der Gesellschaft zugute kommen. Beide Berufsgruppen müssen wissen, dass sie nur in enger Zusammenarbeit erfolgreich tätig sein können.

Die Umsetzung dieser Erkenntnis beginnt in der Vorschule und in der Schule. Begeisterte Lehrer in den naturwissenschaftlichen, mathematischen und technischen Fächern werden die Aufgeschlossenheit der Schülerinnen und der Schüler für Technik und Naturwissenschaften und nicht zuletzt auch für technische Berufe steigern. Ein Anstieg der Studienanfängerzahlen in diesen Fächern gibt Hoffnung.

Hierzu hat das „Jahr der Technik“ ein gutes Zeichen gesetzt. Es sollte mit dem Jahresende nicht abgeschlossen sein, sondern zusätzliche Impulse für die Fortsetzung des Dialogs zwischen Technik und Öffentlichkeit geben.

■ Hubertus Christ, President DVT





Dr. Michael Schanz
(e-learning project
manager)

CPDC "E-LEARNING"

The FEANI CPD committee finished the project Employability during 2004 and is currently running a project on e-learning. In the USA, e-learning is used frequently with numerous providers of courses. In Europe, though, development is far slower. Bigger companies often have their internal courses using e-learning, but it is often difficult to find suitable courses for engineers wanting to work with CPD but not belonging to those companies.

The task of the CPDC e-learning project is to find providers, methods, funds, etc; and to promote e-learning as useful tool. We believe the project will be of special interest to SMEs, as many of them have limited resources and hence will not be able to send their key personnel to training courses. By means of e-learning, the employees of these enterprises will still be able to participate in CPD, but without leaving the office for a longer period of time and at a considerably lower costs.

■ Mr. Claes Trolle, CPDC Chairman



SOIREE DE L'INGENIEUR INDUSTRIEL 2005

Comme chaque année, le premier samedi de février, l'Association Luxembourgeoise des Ingénieurs Industriels (ALII) organise sa grande soirée de l'ingénieur industriel en l'honneur de ses membres actifs et retraités.

Puisque l'année 2004 a vu naître l'université de Luxembourg (UNILUX), l'Institut Supérieur de Technologie (ISTL) y a été intégré en tant que Faculté des Sciences, de la Technologie et de la Communication. Comme dans le passé, la nouvelle faculté continuera de former de jeunes ingénieurs industriels dont plusieurs lauréats de la promotion 2004 étaient ce soir les convives de l'association afin de recevoir le

prix de l'ALII. En effet, l'association décerne ce prix sous forme d'un chèque sponsorisé par la firme PHOENIX Contact Luxembourg pour la meilleure présentation d'un mémoire de fin d'études dans les domaines de l'Informatique Appliquée, de l'Electrotechnique, de la Mécanique et du Génie Civil.

C'était encore en 2004 que l'association, soucieuse de la formation professionnelle continue de ses membres, a mis sur pied, outre les formations continues pour ingénieurs organisées avec le département SITec du Centre de Recherche Public Henri Tudor, une formation de Master of Science in Technical Management (MSTM), et ce en

collaboration avec l'université américaine d'Embry-Riddle.

Plusieurs membres de l'ALII sont dès lors en train de bénéficier de cette offre de formation. Les principaux acteurs de l'université partenaire et du SITec étaient les invités d'honneur de cette soirée.

Puisque la soirée s'adresse non seulement aux membres désireux de revoir leurs collègues mais aussi à ceux qui recherchent un divertissement, c'est la gastronomie, l'humour et la danse qui se devaient d'être de la partie. Pour animer la soirée, le conseil d'administration de l'ALII choisit chaque année des attractions particulières. Cette année la magie et la danse orientale ont réussi à enchanter le public jusque bien après minuit.

■ SCHMIT Marc Mathias
Secrétaire Général du comité National
Luxembourgeois de la FEANI



2004 MALTA ENGINEERING EXCELLENCE AWARDS

The Malta Engineering Excellence Awards for 2004, held at St. James Cavalier (Valletta), were presented by the President of Malta, Dr. Edward Fenech Adami.

Organised by the Chamber of Engineers in collaboration with the Ministry for Resources and Infrastructure, these awards are created to provide national recognition to individuals and organisations that have achieved

outstanding engineering accomplishments. Three awards are given annually, one for Innovation, one for Leadership and one for Life Time Achievement.

The winner in the Award for Innovation was DataStream Limited, which is a subsidiary company of Malta national telecommunications company, Maltacom. DataStream managed



(From left to right) Ing. Andrew Borg, Director, Computime, Ing. Gerald Borg, Chairman, Quality Project Management Ltd., Ing. Alexander Tranter, President of the Chamber of Engineers, and Ing. Godfrey Vella, CEO, DataStream Ltd.

(Continued p.11)

to introduce pay by use ADSL that is appeals both for small users especially those who have the slow modem type connection, as well as for the occasional users who do not need more than a few hours of online connection per week. The result is a system that makes wideband technology available to a larger sector of the population.



The winner of the Leadership award was Computime Ltd, one of the leading front-end technology users, and developer of software based on current state of the art platforms, and a systems integrator enabling a considerable number of local industries to have state of the art competitive network based systems to conduct their operations and business.

The Lifetime Achievement award given to an individual, who has contributed through his own career to the advancement, and promotion

of the engineering profession, went to Ing. Gerald Borg, currently Chairman and Managing Director of Quality Project Management Ltd., as well as Managing Director of subsidiaries of the Corinthia group in Malta and overseas. The Corinthia group is Malta largest international hotel chain. Mr. Borg has been influential in providing training and experience for young engineers who have eventually themselves moved into senior engineering and management positions both locally and overseas.

At the end of the presentation ceremony, Ing. Alexander Tranter, President of the Chamber, emphasised the importance of the contribution the engineering profession is providing to local industry and Maltese society in general. He appealed to all engineers to always be professional and dynamic in their work. ■



His Excellency Dr. Edward Fenech Adami, President of Malta (left) making his official speech at the presentation ceremony.



The audience attending the presentation ceremony of the 2004 Malta Engineering Excellence Awards.

The sixth Scientific Symposium of the Romanian Engineers from everywhere

Every two years, the General Association of Engineers in Romania organizes, on the occasion of the celebration of the Engineer day, September 14, the Scientific Symposium of the Romanian Engineers from everywhere. This Symposium offers an opportunity to establish real bridges between the Romanian engineers from Romania and from abroad and is much appreciated by the participants.

The theme of the Six Symposium organized in 2004, was "The Quality impact on the integration of Romania in the European market". More than 150 participants from Romania and Germany, Greece, Republic of Moldavia, USA, Albania, Russia and Ukraine, representantatives of professional associations, industrial societies, research institutes, universities, academicians and other scientific personalities attended the event.

90 papers in the following five sections were submitted in plenary session:

1. Industry and Services;
2. Agriculture - farming and food
3. Consumer and health protection;
4. Environment protection;
5. High education

The works were published in the AGIR Bulletin that is available online on the AGIR website <http://www.agir.ro>

The AGIR Award

Every year on the occasion of the celebration of the Engineer day, the AGIR Price is awarded to the most valuable engineering works achieved and applied during the previous year.

This event promotes the newest engineering achievement in all domains, identifies new projects and the integration of the Romanian specialists in the activities of the international scientific community, encourages and stimulates the engineers.

This year, nine prices were awarded for the sections:

- Electrical Engineering
- Mechanical Engineering
- Civil Engineering
- Chemical Engineering
- Environment Engineering
- Textile and Leather Engineering

Abstracts of these works were published on our website, in the bimonthly Engineering Universe. ■



ENGINEERING IN SLOVENIA

It is somehow difficult to compare the Slovenian Association of engineering organisations with the engineering organisations in other countries. Its peculiarity is not only in the small number of inhabitants in Slovenia (two million) but also in the position it had in the former Yugoslavia.

The engineers of Slovenia have been active from 1911, when the first interdisciplinary society of engineers was formed.

The engineers of Slovenia played also a very important role just after the war. It could be said that the whole technical development of former Yugoslavia was strongly influenced by its most western republic Slovenia. There were generations of engineers who were educated at the Slovenian University and trained in the most advanced Slovenian companies.

The Slovenian engineering organisations were a kind of catalyst that contributed to the technical knowledge of the whole country.

The loss of the market of former Yugoslavia forced our economy to fund new ones in the West.

The historical and political changes in our country in the year 1991 brought drastic changes to the position of Slovenian engineering organisations as well.

Slovenia is an independent state with a European tradition, trying to include itself in the new economic and political associations of Europe.

Many things have been changed up to now and maybe the most significant change is the opinion that only economists and managers are now urgently needed.

This is somehow true because the socialist system has been replaced by private companies and an entirely new philosophy of management is necessary.

However, the need for technical standards and regulations governing the development of the technical part of life requires well-educated and skilled engineers.

This situation represented a kind of crisis of the technical profession in the transitional time. Some reorganisation within the technical and engineering activities is required.

Together with the politicians they were able to prepare the necessary conditions for Slovenia to join as a member of the European Union in 2004.

Our membership to FEANI since 1995 is one of the most important milestones on our way to integration of our country into the community of European countries.

FEANI is the association which contributes significantly to the unification of our educational system so that our engineers can join their colleagues from other European countries on equal terms.

This is a very important advantage especially for engineers being educated and trained in a small country like Slovenia.



IVAN LEŠNIK

On the other hand, the Slovenian Association of engineering organisations is the binding national organisation, which has also the task of saving our identity in the field of technical achievements. The Slovenian National Committee for FEANI unites all professional engineers of Slovenia.

Its future role is not only struggling for a better position for the engineers in the Slovenian society, but also including their members in political life.

Slovenian engineers work in various branches of industry and also in research, in science and education.

The Slovenian National Committee for FEANI was founded in May 1995 and includes seventeen engineering associations with 10,480 declared engineers.

At present, the Slovenian National Committee for FEANI cooperates with three Universities and fourteen technical faculties which organise higher education of engineers in Slovenia. All these higher education programmes are included in the FEANI INDEX and the graduated engineers with engineering experience can then acquire the EUR ING title. At present in Slovenia, 92 engineers have been awarded the title EUR ING.

The Slovenian National Committee for FEANI also cooperates with the Ministry of higher education, science and technology, with other government institutions as well as the Chamber of Commerce and Industry of Slovenia which is the representative for Slovenia.

By participating in FEANI activities, the Slovenian National Committee for FEANI expects to help in creating the policy of engineering organisations in Europe, and by applying their experience, we are sure to realise our aims in the best possible way.

■ **IVAN LEŠNIK, President of the Slovenian National Committee for FEANI**



The HAE is 15 years old

The Hungarian Academy of Engineering was established 15 years ago, with 42 founding members, and with the Presidency of Prof. Ernő Rubik, who became 6 years later – the Honorary President of the HAE. 6 years later Professor János Ginsztler, academician was elected as new President, and he was re-elected also in 1997 and in 2000.

During the last years, the membership of the HAE increased to 193 members, including 30 honorary members.

The HAE is a member of CAETS since 1995, of the EURO-CASE since 2000, of the Hungarian National Committee for FEANI since 1990, and is founding member of the Hungarian Section of the American Society for Materials (ASM-Hungary).

The HAE promotes the development of Hungary in every scientific professional fields, which

is in connection with the development of the technology, using the multidisciplinary knowledge of the members as well as their international recognition and experience.

The main goal of the HAE is to support the efforts of the Hungarian Government in increasing the competitiveness of the Hungarian Economy, using its international experiences as well.

The 15 years jubilee was hosted by the Hungarian Patent Office. Among others, Dr. Miklós Bendzsel, President of the Hungarian Patent Office, Dr. Miklós Boda, President of the National Office for Research and Technology, Prof. László Keviczky, Vice-President of the Hungarian Academy of Science, and Prof. László Somlyódi, President of the Technical Section of the Hungarian Academy of Sciences greeted the membership of the Hungarian Academy of Engineering.



Engineering Education after "Bologna"

The 7th WFEO World Congress on Engineering Education and Training will be held in Budapest between the 4-8 March 2006. The main theme of the congress is the "MOBILITY OF ENGINEERS".

The main topics of the plenary speeches and the main tracks of the Congress are:

- Accreditation of engineering qualifications,
- Establishing substantial equivalence,
- Regional agreements,
- Registration and licensing,
- Case studies from industry on mobility issues,
- Curriculum to promote the mobility of engineering students.

The **First WFEO** World Congress on Engineering Education and Training took place in November 13-15, **1988** in Kathmandu, **Nepal** at the Royal Academy of Sciences. The main theme was "*Non Formal Methodologies in Engineering Education and Training*".

The **Second WFEO** World Congress on Education and Training was held in Havana, **Cuba** in September 10-13, **1991**. The main theme was "*Training of Engineering Professors to meet the Challenge of the 21st Century*".

The **Third WFEO** World Congress on Engineering Education and Training was organised in Cairo, **Egypt** between 14-18 November, **1994** by the Egyptian Syndicate of Engineers (ESE). The main theme was "*Quality of Engineering Education - An International Perspective*".

The **Fourth WFEO** World Congress on Engineering Education and Training was held in Sydney, **Australia** on 20-21 November **1997**, organized by The Institution of Engineers, Australia. The main theme was "*Professional Development for Global Engineering Practice*".

The **Fifth WFEO** World Congress on Engineering Education and Training was organized under the responsibility of The Polish Federation of Engineering Association (NOT) and was held in Warsaw, **Poland** on 12-14 September **2000**. The main theme was "*Improving the Innovative Capacity of Students and Teachers and New Educational Techniques and Technologies*".

The **Sixth WFEO** World Congress on Engineering Education was held in Nashville, **United States of America** between the 20-22 June **2003**. The main theme was "*Global Challenges in Engineering Education*".

For more information please go to:

<http://congress.mti.bme.hu> or write to:
wfco-7wcee@mti.bme.hu

Mrs. Z. Sárközi-Zágoni
Chief Counsellor

■ Secretary General of the HNC for FEANI



SURVEY ON RECRUITMENT OF ENGINEERS IN ITALY

“ The Demand of Engineers’ Recruitment by Enterprises increases, even in the context of general economic stagnation in Europe. ”

After two years of worrying decrease, 2004 shows an encouraging inversion of trend in Italy concerning the recruitment of Engineers by enterprises.

The record of around 19,000 recruitments was achieved in 2001, followed, however, by two years during which the number of recruited engineers remarkably decreased to 14,500 in 2002 and to only 11,500 in 2003 (Fig. 1).

In 2004, recruitments go, instead, back to the values of 2002 with 14,500 recruitments.

An increase by 25.6% in comparison with 2003 and, therefore, a recovery which interrupts the worrying decrease started in the previous biennium. We are, of course, still far from the levels of 2001, but the trend inversion is encouraging.

These are the most significant data registered by a recent survey carried out by the Centro Studi of the Consiglio Nazionale degli Ingegneri, which are to be evaluated in the general context of economic stagnation the European Union has been suffering in the last three years. Obviously, production activities grow at a very contained rate also in Italy. Because of the particularly unfavourable context, any positive, even slight, sign, such as the total increase of the labour demand (+1%), is to be caught confidently.

If we analyse recruitments according to Engineering specializations, we register a relaunching of electronic engineers whose recruitments, after a period of tarnishing, increase from 2,012 in 2003 to 4,281 in 2004.

The negative trend of demand for computer science engineers is, instead, confirmed, after the boom in 2001, when this profile absorbed 47.22% of the whole demand for Laureati in Engineering.

Always in the ICT sector, a significant recovery is, however, registered in the demand for telecommunication engineers: the recruitments in the sector even doubles in comparison with the previous year (671 against 341) remaining, however, far from the maximum registered in 2001 (1,179 recruitments).

These data confirm the sectors of computer science and telecommunication to be the main employment outlet for Engineering Laureati (in 2004, almost 30% of Engineers’ recruitments is done by enterprises of this sector, with an increase by 35.3% in comparison with 27.6% in 2003). Beyond what just mentioned, if we consider that almost 2,000 Engineers (13.4% of

the total) are required by companies supplying advanced services to enterprises, we cannot but conclude that the sectors creating most job opportunities for the Engineering Laureati are the most advanced and innovative ones.

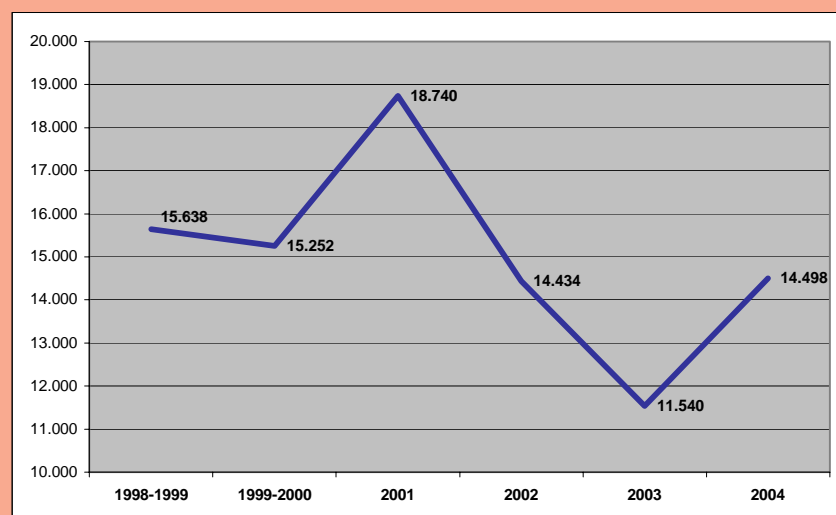
A remarkable part of recruitments remains, however, the prerogative of the mechanical and transport industry (15.4% of the total) and of the electrical and electronic machinery ones (10.8%), even if in this case, the relevant number seems to be dropping in comparison with 2003 (1,573 against 1,783).

The picture of the situation of recruitments we have outlined is, of course, part of a national context which, as concerns employment, sees, out of the 382,000 Engineers registered, 309,000 engineers employed, 13,000 looking for a job, and 60,000 without a job, and an activity rate by 84.3%. Most engineers, 215,000 (69.5%) are employed, while the remaining 30.5% are free professionals.

Industry employs 36.3% Engineers, while 63.2% Engineers pursue their activities in the services sector.

Maria Antonia Delbalzo

Recruitment of persons holding an academic title in Engineering
Years 1998-2004



(Source: Survey Centro Studi CNI on Information Data System Excelsior, 2004)

Table 1 - Recruitments of Engineering Laureati according to their specializations. Years 2003-2004

Specialization	2003		2004		Var. %
	A.V.	%	A.V.	%	
Electronic Engineering	2,012	17.4	4,281	29.5	112.8
Mechanical Engineering	2,228	0.5	2,864	19.8	28.5
Information Science Engineering	3,450	29.9	1,813	12.5	-47.4
Electrical/Electrotechnical Engineering	574	5.0	885	6.1	54.2
Management Engineering	834	7.2	695	4.8	-16.7
Telecommunication Engineering	341	3.0	671	4.6	96.8
Chemical Engineering	381	3.3	476	3.3	24.9
Civil Engineering	955	8.3	472	3.3	-50.6
Building Engineering	199	1.7	410	2.8	106.0
Industrial Design Engineering	167	1.4	363	2.5	117.4
Aeronautical Engineering	98	0.8	315	2.2	221.4
Environment Engineering	120	1.0	289	2.0	140.8
Other Engineering Titles	181	1.6	964	6.6	432.6
Total	11,540	100.0	14,498	100.0	25.6

Table 2 - Recruitments of Engineering Laureati according to the sectors of economic activities of the enterprises. Years 2003-2004

Specialization	2003		2004		Var. %
	V.A.	%	V.A.	%	
Computer Science and Telecommunication	3,184	27.6	4,309	29.7	35.3
Mechanical and Transport Industries	2,023	17.5	2,238	15.4	10.6
Advanced Services to Enterprises	1,130	9.8	1,949	13.4	72.5
Electric and Electronic Machinery Industries	1,783	15.5	1,573	10.8	-11.8
Constructions	685	5.9	1,102	7.6	60.9
Metal Industries	421	3.6	471	3.2	11.9
Other Services to Persons	145	1.3	383	2.6	164.1
Credit and Insurances	132	1.1	314	2.2	137.9
Wholesale Trade and Motorvehicles Trade (*)	350	3.0	301	2.1	-14.0
Oil and Chemical Industries	303	2.6	295	2.0	-2.6
Professional Companies	40	0.3	233	1.6	482.5
Postal and Transport Activities	195	1.7	205	1.4	5.1
Operating Services to Enterprises	16	0.1	185	1.3	1056.3
Rubber and Plastic Materials Industries	204	1.8	135	0.9	-33.8
Energy, Gas and Water Production	193	1.7	118	0.8	-38.9
Paper, Press and Publishing Industries	70	0.6	117	0.8	67.1
Mining	145	1.3	116	0.8	-20.0
Textile, Clothing and Footwear Industries	100	0.9	83	0.6	-17.0
Non-Metal Industries	105	0.9	75	0.5	-28.6
Woodwork and Forniture Industries	38	0.3	73	0.5	92.1
Education and Private Formation Services	30	0.3	61	0.4	103.3
Health and Private Health Services	18	0.2	45	0.3	150.0
Food Industries	81	0.7	35	0.2	-56.8
Hotels, Restaurants and Tourism Services	8	0.1	32	0.2	300.0
Retail Trade of Non-food Products	114	1.0	30	0.2	-73.7
Home Goods, Leisure, & Other Manufacture Industries	27	0.2	20	0.1	-25.9
Total	11,540	100.0	14,498	100.0	25.6

(*) In 2004 classification, this item was divided into "Wholesale Trade" and "Motorvehicles and Scooters Trade and Repair"

(Source: Survey Centro Studi CNI on Information Data System Excelsior, 2004)



Ir Léon Jean BLAFFART, a civil engineer in Applied Mathematics graduate from the University of Louvain and a Management & European affairs consultant, joined recently the FEANI Secretariat General in Brussels to support its strategic activities in the framework of the future Directive on Recognition of Professional Qualifications.

His main tasks will be related to the gathering and analysis of the information necessary to take into account the requirements of the draft Directive on Recognition of Professional Qualifications for the engineering professions (regulations aspects, education structure and disciplines related activities,... in all Member States).

Léon Jean has a long and in depth know how on the working and the decisional processes of the European Institutions. He has participated to and managed several pan-European studies, projects or research for the Commission or the Parliament mainly on the EU policies related to Structural Funds, Public Procurement, RT&D, the Information Society, trans-European networks and GALILEO.

To contact him: leon.jean.blaffart@feani.org

HANOVER FAIR 2005



The 11 April 2005 marks the beginning of the 'Hanover Fair', one of the most important events in the world for **state of the art technologies**.

From 11 to 15 April 2005 over 6,000 exhibitors from 60 countries will present their latest developments for all sectors of industry on a display area of approx. 200,000 square metres.

In order to demonstrate the key role of the engineer in creating this society and in leading Europe towards the goal of Lisbon – to become the most competitive knowledge based economy in the world by 2010; FEANI announces the following major event for European Engineers!

A « European Engineers' Forum » with a key note speech, followed by a round table dis-

cussion focused on 'The role of the European Engineer to safeguard the future and the economic independence of Europe, taking energy supply as an example' (key words: research, new technologies, ...), with high ranking representatives from the European Parliament and leading European Industrialists and Scientists. Detailed information:

<http://www.hannovermesse.de>



Meeting between FEANI & Institution of Mechanical Engineers (IMEchE)

On the occasion of the visit to Brussels of the IMechE President Mr. William Edgar and the Chief Executive Sir Michael More, the Secretary General of FEANI, Mr. Philippe Wauters, had the pleasure to welcome them and Messrs. Adam, Price, Speaight, and Webb from the Benelux Branch of IMechE on

Thursday 3 March 2005 at the FEANI premises. The participants were particularly interested in activities such as the 'Mobility of the Engineering Profession', 'Accreditation', 'Competencies', and 'Continuous Professional Development', which gave the opportunity to the Secretary General of FEANI to present the various FEANI activities related to the INDEX, the EUR ING, CPD, the European accreditation project EUR-ACE, etc. Both organizations appreciated this meeting as a continuation of a fruitful exchange of ideas and concepts.