

Welcome to the ISTECE Quarterly Message,
Year II, Volume II
May 2001



ISTEC Co-sponsored Events

The CHI 2001 Conference on Human Factors in Computing Systems Seattle WA, March 31 – April 5

ISTEC was represented in this event, whose objectives were to promote research and development in countries that do not have well-established academic and industrial communities in the area of Computer-Human Interaction (CHI), and to explore new possibilities for increased government and industrial investment and commitment. In many cases, even though some CHI-related projects have been undertaken, economic hardship, language barriers, poor communication infrastructure, and other problems have prevented researchers from sharing their results and experiences with their colleagues at CHI conferences. At the same time, understanding the issues involved in internationalization is becoming increasingly important. This year, the Development Consortium promoted CHI research and development in Latin America.

“Seminarios Internacionales sobre Tecnología de la Información OpenInfo 2001”

April 4- 11, in Santa Cruz, Bolivia.

On April 4- 11, in Santa Cruz- Bolivia, Dr Ramiro Jordan attended this event, presenting the vision, objectives and future projects of ISTECE as well as the scientific objectives and necessities of the industry in matters related to Information Technologies, Education and Research. Additionally, Dr Jordan attended a meeting with contacts of La Cámara Nacional de Ciencias in La Paz, Bolivia in order to work on existing projects at a national level.

CREFAL (Center of Regional Cooperation for Adult Education in Latin America and the Caribbean) Pátzcuaro, Mexico

During the celebration of its 50 years of activities, CREFAL launched the program “Diplomados Internacionales 2001” which is comprised of four modules, each one with duration of one week. These modules can be taken as independent courses, depending on the necessities or availability of interested persons. The courses start on March 12. For more information please contact Lic. Socorro Guerrero at academia@yreri.crefal.edu.mx or visit <http://www.crefal.edu.mx/diplomados.htm>.

Mecatrónica en Cuernavaca, Mexico

On March 5, the Tecnológico de Monterrey-Campus Cuernavaca launched a new academic program that will be implemented starting in August 2001. The program, named “Ingeniería Mecatrónica” (IMT), is a fusion between Computing and Mechanical Engineering oriented to satisfy the growing demand for professionals in the industrial manufacturing and Robotics industry. For more information please visit <http://www.mor.itesm.mx/~dptoec/mecatronica.html> or contact Dr. Victor Hugo Zárate at vzarate@campus.mor.itesm.mx

NTGTS Asia-Pacific Conference 2001

May 9-19, Cityplace Conference Center, Dallas, TX

The North Texas Global Telecommunications Society (NTGTS), the premier telecom organization in the region, launched the Asia-Pacific Telecommunications 2001 Conference to explore the region's opportunities and risks in depth. The main purpose was to learn how to evolve as participants gained insights from well-known industry leaders who are conducting business in the Asia-Pacific telecommunications economies. Prominent speakers include representatives from Arthur Andersen, LLP; Boston Consulting Group; Cingular Wireless; ClickServices; EDS; Haynes and Boone, LLP; Lucent Technologies; Texas Instruments; and VocalTec Communications, one of the pioneers of Internet Telephony. For complete information please visit <http://www.ntgts.org/asiapacific2001/>

Fourth workshop on Internet Networks Technology

May 28- June 2, Universidad de los Andes, Merida Venezuela

This workshop has the main objectives of: Promoting intensive specialized training in Spanish, Creating a critical mass of professionals in Network Infrastructure, Internet Traffic, Integrated Network Services, and New Technologies and Creation of Projects, and support the expansion of significant activities relative to the development of the Internet in the region. Additionally, it will identify and establish individual and institutional relationships that can contribute to the development of Internet based national and regional activities. The workshop, which will take place in Merida-Venezuela at the ULA facilities, is co sponsored by:

Centro Nacional de Tecnologías de la Información (CNTI), Fundación Escuela Latinoamericana de Redes (EsLaRed), Foro de Redes para América Latina y el Caribe (ENRED), and Sociedad Internet (ISOC). For more information, please visit: <http://www.walc2001.ula.ve/indexnn.html>

Summer School in Images and Robotics - "Escuela de Verano en Imagenes y Robotica" June 5 – July 6, Tecnológico de Monterrey-Campus Cuernavaca.

ITESM – Cuernavaca, in collaboration with the National institute for Investigation in Informatics and Automatics (INRIA-France), is organizing the second edition of the "Summer School in Robotics and Images". The project is sponsored by the Consejo Nacional de Ciencia y Tecnología de México (CONACYT) as one of the activities conforming the network of Robotics and Images of the "Franco-Mexican Laboratory of Informatics" (LaFMI). The school program will consist of intensive courses with a duration of two weeks; members of French and Mexican universities integrate the participating faculty. Senior students of Physics, Mathematics or Computing, Electrical and Mechanic Engineering, as well as graduate students in those fields are encouraged to apply. The purpose is to motivate students to join graduate programs in the Franco-Mexican alliance. For more information please visit <http://w3.mor.itesm.mx/~robvi>

ITHET2001 Second International Conference on Information Technology Based Higher Education and Training Conference of Education in Japan.

The conference will be held on July 4-6, 2001 at Kumamoto, Japan. The deadline of abstract submission was February 1, 2001. The abstract and registration can be accepted on the following homepage of ITHET2001: <http://www.eecs.kumamoto-u.ac.jp/ITHET01/>.

The speakers of plenary sessions include:

1. Dr. Hiroyuki Yoshikawa: President, Japanese Society for Engineering Education (JSEE), and The science council of Japan, Current Status of Higher Education in Japan
2. Dr. George Peterson: Executive Director, Accreditation Board of Engineering and Technology (ABET), Activities of ABET (a tentative subject)
3. Dr. Burks Oakley II: Professor, University of Illinois, Building the Virtual University: A Blueprint for Success
4. Dr. Torbjorn Hedberg: President, European Society for Engineering Education(SEFI), Engineering Education in Europe (a tentative subject)

For more information about this event please visit <http://www.eecs.kumamoto-u.ac.jp/ITHET01/>

INEER/ICEE

August 6-10, Oslo, Norway

ISTEC encourages all of its members to participate actively in the activities of the International Network of Engineering Education and Research (INEER) and the International Steering Committee of the International Conference on Engineering Education (ICEE). There is no registration fee, and the only requirement is your interest to work with the international community in furthering the quality of engineering education for the benefit of students. More details about INEER/ICEE may be found at the website: <http://www.ineer.org>. Also this year, the INEER/ICEE community will assemble in Oslo, Norway during August 6-10, 2001 to review progress and seed new networks and partnerships. Future conferences will be held on: ICEE-2002: Manchester, UK; ICEE-2003: Valencia, Spain; ICEE-2004: Florida, USA.

Please note that ISTECE will be presenting two first prizes of US\$1,000 (courtesy of Motorola Inc) for the best student papers from Ibero-America. More information regarding this event and contest will be available on the ISTECE Website shortly.

ISTECE sponsored Events

Annual Iberoamerican Research and Development Summit (AIRDS), May 7-9, Albuquerque, New Mexico

AIRDS took place on May 7-9, 2001. By all means, the event was very successful in creating and expanding opportunities for technological research, development, and application (R&D&A) for the Iberoamerican region. The emphasis of this event was on project partnering and technology transfer among academic institutions, centers of excellence, US federal laboratories, industrial institutions, and government agencies. The long-term mission of this summit is to create and sustain partnerships and alliances among participants from the Iberoamerican region, address science and technology needs, and pursue innovative and collaborative ventures. This year's Summit mission was:

- Highlight indigenous IT challenges, strengths, developments, and applications in the Iberoamerican region with a special focus on innovative uses of e-services.
- Create profitable and sustainable partnerships in the Iberoamerican region between academic institutions, the private sector, US federal laboratories, technological parks, government agencies, industries housed in Iberoamerican technology parks, and businesses seeking international partners in Iberoamerica.
- Facilitate science and technology education in the region and provide a cost-effective vehicle for technology transfers and joint international projects.
- Offer New Mexico's Iberoamerican heritage and unique technology infrastructure as the "R&D&A Partnership Gateway" to and from the Iberoamerican region.
- Capitalize on and advance the emerging investments and cross-border transactions within the Iberoamerican region to create new partnerships, synergies, and collaborative projects.

For more information please visit: www.IRDsummit.org

XI ISTECE General Assembly

The next General Assembly will be hosted by the Electrical & Computer Engineering Department of the Mayagüez Campus of the University of Puerto Rico on December 5 – 7, 2001. According to some member's suggestions presented at the most recent GA, this year's event will last for 3 days, and will include Liblink, ACE, and R&D workshops and parallel sessions.

The department, which forms part of the School of Engineering of the Campus that includes Civil, Mechanical, Chemical and Industrial Engineering, has 1,500 students and 48 professors. The School of Engineering has 4,700 students, the Mayagüez Campus has 14,000, and the entire University of Puerto Rico has 60,000. We will post more detailed information on the ISTECE Webpage as soon as it becomes available.

IT Challenge - Seminar on Engineering Education, Pontificia Universidade Católica de Rio de Janeiro

The main objective of this event, to be carried out during the third or fourth quarter of this year at PUC-Rio, is to increase the awareness and interest of more institutions that offer higher Engineering Education. Additional objectives include:

- Develop the user's abilities in tools that support Engineering Education;
- Identify national and international partners;

- Establish a relationship among groups in basic areas (business administration, humanities, science and technology).

An expected result of this meeting is a more effective participation from institutions in the Americas, especially in Central and South America, at the ICEE (Conferencia Internacional sobre la Educación en Ingeniería) and the INEER (Red Internacional sobre la Investigación y Educación e Ingeniería). For more information, please contact Matias Pizarro (mpizarro@istec.org) or Ana Pavani (apavani@fourier.lambda.ele.puc-rio.br).

News From the EO:

WWW.ISTEC.ORG

The Executive Office is proud to announce the revised and updated official ISTEC Webpage. Under the coordination of Luis Arregoces (Webmaster) and the technical expertise from Khoral Research and Networks! In Albuquerque, the new page is already being used as an information repository and will eventually serve the functions of a S&T Portal for the region. Shortly we will incorporate interactive services, a distributed database, and other features. We will also disseminate a brief document outlining the policies and procedures to publish information and news on the ISTEC Webpage.

Additionally, all members are encouraged to visit the discussion forums located on the front page of the Webpage.

ISTEC Web page mirror sites, March 6, 2001

In an effort to offer better services to its members and to provide faster connection in different geographic locations, ISTEC has launched five new servers mirroring its web site (<http://www.istec.org>) in diverse regions. These are the locations of these sites:

- www.fisicc-ufm.istec.org (Guatemala)
- www.javeriana.istec.org (Colombia)
- www.ufsc.istec.org (Brazil)
- www.unlp.istec.org (Argentina)
- www.ugr.istec.org (Spain)

ISTEC Distributed Database

Since the initial groundwork was carried out last year under the leadership of Soraya Abad (USB), the ISTEC Distributed Database is finally in its first operational phase. This consists of its exclusive use by the Executive Office, and later open access to the general members once appropriate security is installed and members have their own passwords. The ISTEC database will eventually allow members to access detailed information regarding member and non-member institutions, projects, events, and other valuable data. It will be a mechanism to decentralize information and allow the Executive Office to receive information regarding events and persons in a timely fashion.

For more information, please contact: Bddis-info@istec.org

Degree Master's Program being developed at UNM

Through the ISTEC Executive Office at UNM, the Consortium is making due preparations to launch double degree post-graduate programs with other participating member institutions. To the present date, a pilot dual degree Master's Program in EE is being developed with Universidad de Vigo in Spain, and UNICAMP in Campinas, Brazil. Representatives of both these institutions recently visited with Dr. Christodoulou (Chair at EECE – UNM) to discuss curricular details and effective implementation techniques. We will disseminate more details as soon as they become available.

ISTEC Board of Director's Meeting

The first Biannual regular Board of Directors meeting took place on May 31 – June 1 at Motorola Headquarters in Ft Lauderdale, Florida. Aside from their regular deliberations regarding the Consortium's administration and the general direction of the initiatives, the Board also included in its agenda special pending themes such as the ISTEC Business Plan for the Los Libertadores Gateway and some conditions for the election process for Board of Directors that will take place during this year's General Assembly in Puerto Rico.

Irregularity in payment of membership dues affects voting privileges

The EO wishes to remind the members of the vitality of their membership dues for the effective daily operation of the Consortium. As was agreed upon during the last General Assembly under the "New Membership Regulations" document, section 2.4 (please see Webpage, under Membership Regulations), only those institutions that are current on their dues by the month of October will be able to vote for a candidate for the Board or run for office at the time of the General Assembly. We respectfully send a reminder to our members so that their institutions can stay current and in this way collaborate towards the larger goals of the Consortium.

Board of Directors Elections

As was agreed upon at the most recent General Assembly, and as outlined in the approved "Election Procedures," there will be 4 academic positions and 2 industrial positions to be elected for three year terms during the XI General Assembly. Please visit the ISTEAC Webpage to become familiar with the Election Procedures as well as the current make up of the ISTEAC Board of Directors so that everyone can be ready to vote by the next GA.

Departure of Jorge Sanín from the Executive Office

Due to other professional commitments with the Organization of American States (OAS), Jorge Sanín will be leaving the Executive Office on June 1, 2001. He will be greatly missed for both professional as well as personal reasons. However, Jorge will continue working with ISTEAC on specific projects and will be in frequent contacts with the Executive Office, the Board of Directors, and the ISTEAC membership at large. Both his farewell speech as well as photos from his going away party may be accessed on the ISTEAC Webpage, under the "Photo Album" link. He can still be reached at his regular email: jsanin@istec.org or jsanin@oas.org

Los Libertadores:

Los Libertadores Gateway

Under the guidance of Dr. Ramiro Jordán, Director of Strategy and Planning, the Executive Office has been working on the proposal for the Los Libertadores Information and Communication Technology (ICT) Plan. Its objectives will support education, distance learning, research and development, intellectual property development, capital acquisition, project and program incubation and will be a major source of revenue generation within the region, and to member universities, through the use of the Portal by non-members, and others throughout the world who wish to access the databases and contacts within the region. It has captured the interest and enthusiasm of industry and large-scale vendors who wish to contribute to the goals and objectives of the consortium. Among these major vendors, who are also members of ISTEAC, are Microsoft, Sun Microsystems, Nortel Networks, Motorola, SCT, EpicEdge, and SilverPlatter. Since massively improved telecommunication services within the region are a major aspect of the Los Libertadores project and the Portal, ISTEAC has recently gained the support and interest of 3 major international telecom providers who wish to provide the major backbone(s) required for ISTEAC to achieve its goals. Among these are IMPSAT, AMPATH, and W4. We have created a structured plan to incubate and capitalize future high-tech companies which emanate from or through ISTEAC academic members, as well as provide full assistance to successfully bring an idea from the laboratory into the commercial marketplace in a timely and efficient manner. This effort translates in the identification of new opportunities, talent, venture capital, management, technology assessment, IP protection, and marketing.

During the first two quarters of the year, Dr Jordan carried out meetings with investment banks, foundations, international organizations, venture capital firms, and other organizations in order to develop this plan and its pertinent deployment . The latest versions of this plan will be presented to the Board of Directors during its meeting on May 31 – June 1.

Liblink:

PrEBi – LigDoc Meeting

April, UNICAMP, Campinas, Brazil

On April 26-27, different ISTEAC member and associated universities carried out a meeting for those libraries that have been active participants of the Liblink project. This meeting was led by Dr. Mauro Miskulin and Dr. Isabel Santoro, and

the main objective was the presentation of the Administrative and Statistical Software developed by Universidad Nacional de la Plata for the Liblink project. The project was financed jointly by UNLP and ISTEAC.

The software allows for the administrative control of requests and bibliographic transfers, while providing detailed statistics regarding the bibliographic materials, the requesting person / institutions, the places involved in the exchange of the document, turn around times, and much more; all these features are a result of a relational database that is used as a nucleus of the work. The software was successfully installed at UNICAMP, which will be one of the pilot testing sites. It will be installed shortly at the University of New Mexico as well as in institutions in Colombia and Spain.

ISTEAC – REBIDIMEX coordinating meeting

Xalapa, Mexico

During a recent visit to Xalapa in May, Liblink / EO representatives Jorge Garcia and Johann van Reenen met with the coordinating committee and members of REBIDIMEX in order to evaluate its progress and leadership for the next years. In just a couple of years, and under the guidance of Enedina Ortega (ITESM – Edo Mexico), REBIDIMEX was created as the Mexican Digital Libraries Group that sponsored a number of events, seminars, and established policies and procedures for document exchange and collaboration at both national and international levels.

The main objective of this meeting was to establish future leadership for the program. REBIDIMEX will continue promoting "the use and the creation of services to disseminate information in electronic and computer engineering through the web" under the leadership of a tripartite committee composed by Centro de Cooperación Regional para la Educación de Adultos en América Latina y el Caribe (CREFAL), ITESM Campus Ciudad de Mexico, and the Colegio de México. The main coordinator will be CREFAL, and its responsibilities will include: Coordination of committee meetings, Create Information Repositories, Administer, send, and deliver electronic documents in conjunction with the ISTEAC personnel at UNM, Maintain and develop the REBIDIMEX web page, and maintain a communication link with the Liblink Director. ISTEAC's commitments include: Continue providing free document exchange with UNM, Support the coordination of workshops, committee meetings, and conferences related to the development of the digital library in Mexico, Support by writing and submitting proposals, Publish information related to REBIDIMEX in the ISTEAC Quarterly message, and Create links with regional Directors, for example with CONACyT.

Based on the success of the Mexican model, the strategy followed will set an important precedent in the creation of new regional Liblink blocks. For more information, please contact Enedina Ortega at: eortega@campus.ccm.itesm.mx or Jorge García (jgarcia@istec.org).

Electronic Thesis and Dissertations

Recife, Brazil

The Universidade Católica de Pernambuco hosted the 3rd ETD's training course on Electronic Thesis and Dissertations. Led by Dr. Ana Pavani from Pontificia Universidade Católica do Rio de Janeiro, the course was attended by over 30 students from Brazil, Chile, Argentina and Colombia. To find out additional information regarding this as well as future ETD events, please contact Claudio Menezes at cmenezes@unesco.org.uy

Negotiations with SilverPlatter Information Services

According to the resolutions of our X General Assembly, and as part of ISTEAC's Los Libertadores Initiative 2001 plan, the Consortium has announced a strategic partnership with SilverPlatter Information Services to create the largest platform for scientific research information access in the Americas. This partnership, which is part of the larger ISTEAC – Library Linkages Initiative mission, is an unprecedented opportunity to strike the first international scientific database deal of its kind. Once completed, this agreement will provide the Latin American region with access to information that is unknown to any single institution in the US, Europe, or the rest of the world.

The objective of this project is to accelerate science and technology development in Latin America by providing web access to the leading international research materials within the academic community. The program will provide ISTEAC supported regions with Internet access to the top 25 scientific and technology research databases in the world through ISTEAC's Los Libertadores 'Gateway'. The selection process for these 25 databases stemmed from an ongoing effort among various ISTEAC – Liblink institutions to identify the most useful science and technology databases to access publications in a wide range of fields. Please visit: <http://www.istec.org/silverplatter/index.html> and request a username and password if you wish to obtain more detailed information.

Currently, the EO and Liblink Directors are reviewing the first round of negotiations and preparing an iteration that will be part of the proposed Los Libertadores Gateway. Since the Consortium was unable to meet the May 1 initial deadline, ISTECS is refining the proposal and continues to actively seek collaboration and feedback from its current membership. For more information, please contact Johann van Reenen (jreenen@unm.edu) or Juan Larrañaga (larranag@istec.org).

CISTI

Several ISTECS members currently have set up pre-paid CISTI accounts with CSEL, and the cost per document remains at a flat fee of \$15 / document. If you have any questions regarding CISTI procedures or other Liblink general questions, please contact Juan Larrañaga at: larranag@istec.org

Liblink basic trainings workshops

Colombia, Uruguay/Paraguay, Venezuela - 2001

Central America - 2002

The Executive Office and the Initiative Directors are currently planning a series of modular workshops to be coordinated and carried out in 2001 and 2002. These workshops have a regional nature, and will be customized according to the needs of the host institution. They will be given ample dissemination among the ISTECS membership through the ISTECS webpage, the Quarterly Messages, and specialized listserves.

Master's in Library Science – University of South Florida (USF)

Tampa, EUA

After initial meetings with USF personnel, CSEL Director Johann van Reenen is working together with Willie Moreno (USF ISTECS representative) in order to further coordinate this exchange program. The EO will keep the membership informed of any updates. Please contact Johann van Reenen (jreenen@unm.edu) or Willie Moreno (Moreno@eng.usf.edu) for additional details.

Research and Development Laboratories:

Motorola M-CORE Contest

Motorola, Inc. has agreed to support the ISTECS R&D Initiative by announcing the M-CORE M210S design contest. This contest is designed to encourage students to develop peripheral functions required for System on a Chip (SoC) integrations while accelerating the deployment of M-CORE technology to ISTECS university members. Contest participants will develop Integrated Peripheral "IP" blocks to integrate with the M-CORE M210S CPU and reference platform. Motorola's System-on-a-Chip standards will be used to guarantee a consistent set of deliverables across all contest entries.

The Contest begins at 8:00 a.m. Eastern Time on January 31st, 2001 and ends at 8:00 a.m. on October 1, 2001. design contest entries will consist of a functional specification describing the IP peripheral block to be designed to interface with the M-CORE architecture. This document shall be submitted in conjunction with the database request form. All additional information will be posted and updated on the ISTECS Website.

M-CORE book

All the chapter outlines for the M-CORE book have been turned in to the EO and Jorge García is currently coordinating these efforts with the authors, Motorola, and the R&D Initiative directors. All updates will be available on the Webpage, or you may contact Jorge Garcia at: jgarcia@istec.org

R&D Exchange Program with the University of South Florida

During a recent visit to USF in April-May, Mauro Miskulin met with several USF authorities and USF-ISTECS representative Willie Moreno in order to discuss cooperative exchange programs and possibilities for interactions with other ISTECS members. A follow-up visit of USF representatives to UNICAMP is scheduled to take place soon, and all updates will be posted on the ISTECS Webpage as soon as they become available. For more details and information please contact Willie Moreno at: Moreno@eng.usf.edu

PASI – NSF Proposal

The Executive Office at UNM has submitted a proposal to the National Science Foundation (NSF) to carry out a Pan American Advanced Studies Institute (PASI) during the summer of 2002. If approved, the proposed (PASI) will consist in an intensive studies program aimed at advanced graduate and post-graduate level research in Telecommunications and Computing at a hemispheric level. PASI will have a duration of two weeks, and the funding involves approximately 50 participants from ISTEAC members universities. During the first week participants will share a common Telecommunications & Computing curriculum, and thereafter they will specialize in one of these tracks for the second week. The optional third week will consist of individual research activities at participating laboratories, at UNM or other locations. The objectives for the period of the proposed work are: 1) provide opportunities for technological research, development, and applications; 2) explore innovative technological advances; 3) disseminate the latest research trends and topics in Telecommunications and Computing; 4) provide opportunities for participants to directly experience the advanced state-of-the-art work; and 5) identify and create collaborative frameworks for hemispheric science and technology research. The Executive Office will keep all members updated as soon as the NSF sends additional information.

Advanced Continuing Education:

Collaboration with the European Community / ARIADNE

Nicolás Perez de la Blanca, current leader of the ACE initiative, has been coordinating all interactions with the ARIADNE foundations as well as other leads in the European Community. The ARIADNE Foundation was created to exploit and further develop the results of the ARIADNE and ARIADNE II European Projects, which created tools and methodologies for producing, managing, and reusing computer-based pedagogical elements and telematics supported training curricula. This is a not-for-profit Association – 'the ARIADNE Foundation' for short – which endorses a few key societal objectives:

- Foster cooperation between educational bodies through the set-up and exploitation of a truly European Knowledge Pool;
- Keep social and citizenship aspects dominating Education, combat and evolution towards making it a mere marketable item;
- Uphold and protect multilinguality and the use of national/regional languages in education;
- Define by international consensus what aspects of ICT-based formation should be standardized and what should be left local.

If you wish to be receive the ARIADNE newsletter, please request your free electronic subscription by writing to: <http://www.ariadne-eu.org>. For more information regarding ARIADNE you may contact Nicolas Perez de la Blanca (Nicolas@ugr.es) or Eddy Forte (eddy.forte@epfl.ch).

Discussion Forums

The Executive Office, in conjunction with Pontificia Universidade Catolica do Rio de Janeiro, is launching a public discussion forum in order to create a space where ISTEAC members can interact and share opinions and experiences. It is currently accessible under the ISTEAC Web page, but is in a pilot phase for improvements and suggestions. Please take a moment to access this forum and send your suggestions to the Executive Office.

APTO

Continuing Studies Course (Diplomado) in Commercial Networks Planning and Administration Universidad Tecnológica Equinoccial – IBM Ecuador Quito, September 2001

This Certificated consists in 7 3-4 day intensive courses relating to Network Administration in an industrial setting. Some of the objectives include:

Presenting problems and needs of communications systems within an industry; exchange experiences among directors, administrators, and other key players in a company; showcase available technologies, design techniques, and development strategies in a telecommunications applications; provide a direct contact with different providers of HW / SW technologies through UTE's infrastructure; create awareness of the important changes in IT; present the importance of security policies in an industrial setting; among others.

The programs will cover both theoretic and practical applications.