■ COLABSQUARE

UT Austin | Portugal International Collaboratory for Emerging Technologies, CoLab

■ Welcome Note from CoLab@Austin Advanced Computing Director

In a recent book titled "The World is Flat", the New York Times columnist Thomas Friedman argues that globalization is radically changing business models across the world. These global tsunamis are also changing universities – no country has a monopoly on research talent or resources, so it has become necessary for universities to work together across national boundaries to solve major research challenges.

The CoLab project in Advanced Computing is a visionary collaboration between the University of Texas at Austin and a consortium of Portuguese universities. Austin is a high-tech center, home to Dell Computers, the IBM Austin Research Labs and Systems Division, and Freescale, as well as major divisions of AMD, Intel, and other companies. The Texas Advanced Computing Center (TACC) is home to Ranger, which is one of the fastest high-performance computers in the world, and the University has world-class programs in Computer Science and Electrical and Computer Engineering. Portuguese universities are world leaders in Advanced Computing areas such as digital media, functional and logic programming, and computational fluid and structural dynamics.

There are ongoing collaborations in many areas including computational fluid dynamics, grid computing, multicore computing, computational materials, and programming patterns.

Working together, we will change the world!

Keshav Pingali

MARK YOUR CALENDARS:

■ **PUBLIC SESSION REGARDING THE R&D PROJECTS CALL (ALL AREAS)– U.PORTO (ROOM B001), PORTO, PORTUGAL**
September 11th (9:30am) - For more information on the event and how to attend, please visit:
http://www.utaustinportugal.org/Events.aspx?event=218.

■ **10TH ANNUAL CONFERENCE ON WORLD WIDE WEB – VENUE 2 (DIGITAL MEDIA) - Nairobi, Kenya**
September 10th-12th.

■COLAB News Center

CoLab@Portugal sets up public sessions in Lisbon and Porto to introduce the 2008 R&D Projects Call

The UT Austin|Portugal Program (CoLab) has organized two sessions open to the general public to introduce the 2008 Call for Research & Development projects in the areas of Digital Media, Advanced Computing and Mathematics.

The sessions will take place on September 10th, at the Auditorium 1 of the FCSH/UNL (Av. De Berna, 26), in Lisbon, and on September 11th, at Room B001 of FEUP (R. Dr. Roberto Frias), in Porto. Both sessions are scheduled for 9:30am.

Both sessions will discuss the main objectives and ambitions of the project's call and the possibilities existing in each area of the Program. The Directors of all academic areas of the UT Austin|Portugal Program will be present, as well as an FCT representative to help answer more technical questions concerning the application process.

The R&D Projects Call is open until October 15th. All interested candidate teams must submit their application electronically on the Science and Technology Foundation's (FCT) website (http://concursos.fct.mctes.pt/projectos/).

For more information about this call please go to the Program's official website (www.utaustinportugal.org) or send your questions to the directors of your interest area: dm.colab@fct.mctes.pt (for Digital Media), ac.colab@fct.mctes.pt (for Advanced Computing) and math.colab@fct.mctes.pt (for Mathematics).

■ BJ Nielsen set to perform at FUTURE PLACES welcome party at Casa da Música

BJ Nielsen has been confirmed as FUTURE PLACES Welcome Party performer, an event that will open the festival at Casa da Música, on October 9th.
BJNilsen, born in Sweden in 1975, is a sound and recording artist, and has since the early 90´s been putting out work in various constellations. Primarily focused on the sound of nature and its effect on humans, field recordings and the perception of time and space as experienced through sound, often electronically treated. He has worked for documentary film, television and sound engineer.

Nilsen completes a list of international participations at FUTURE PLACES, which will also have world renowned speakers and workshop instructors that include Philip Dean, Director of the Media Lab of the University of Art and Design in Helsinki, Steven Devleminck, Director of the Transmedia program of Hogeschool Sint-Lukas in Brussels, Caroline Frick, founder of the Texas Archive of the Moving Image, Mike Harding, the U.K. Ambassador to the Kingdoms of Elgaland-Vargaland (http://www.elgaland-vargaland.org), an international online art project, and co-publisher of Touch, an audio-visual publishing house based in the U.K., and Ana Nassar of the Museu da Pessoa (Museum of the Person), in Brazil, among others.

The festival FUTURE PLACES, will take place in Porto, Portugal, from October 7th to October 19th. The festival will be comprised of workshops, which aim to bring together members of the digital arts communities, including people involved in research and production, to creatively explore several art forms included under the term "digital media". Also, part of the festival will be devoted to panels conducted by speakers with academic and industrial affiliations, and on topics with a business orientation.

To know more about the Festival go to:
http://www.utaustinportugal.org/Events.aspx?event=165 or visit the festival's official website – http://futureplaces.org.

■ FUTURE PLACES workshops last available places are running out fast – Apply Now!

The UT Austin|Portugal Program has opened the applications for 3 workshops happening during the FUTURE PLACES festival. The application process is ongoing and done in a "first come-first served" basis. The festival's organizing committee received a massive response from the public and, in just two weeks, two of the workshops are already full and have started a waiting list.

The existing workshops are: Introduction to Arduino, Interface Design for Mobile Devices and Active Media 2.0. Introduction to Arduino will introduce participants to the physical computing platform known as Arduino, an open-source environment supported by an international community of user. Interface Design for Mobile Services will explore the user interface design opportunities and challenges for different mobile devices, taking also into account the underlying information architecture or storyline. Active Media 2.0 will give participants a theoretical introduction into the field of mapping and interactive and generative projects followed by a brief outline of the mapping/interactive/generative software that will be used (FreeMind, Max/Jitter, Sound/Video Capture).

For more information on FUTURE PLACE's workshops and the application requirements please visit http://www.utaustinportugal.org/Events.aspx?event=220 or the festival's official website at http://futureplaces.org.

■ SUMMER WORKSHOPS bring awareness to Advanced Computing possibilities in Portugal

The Advanced Computing Program has organized two workshops this summer that have highlighted the possibilities of co-operation between Portuguese universities and UT Austin. The workshops, that took place at IST/UTL and at UCoimbra, gathered about 100 students from different backgrounds and focused on the applications of advanced computational fluid dynamics and supercomputing, respectively.

The Portugal-UT Austin CFD 2008, took place over 2 days at IST/UTL and had such renowned invited speakers as Thomas J. R. Hughes, Robert D. Moser, Chandrajit Bajaj, all from ICES at UT Austin and Venkat Raman from the Department of Aerospace Eng. & Eng. Mech.at UT Austin, as well as Portuguese Keynote speakers such as Rita Carvalho (UCoimbra), José Laginha Palma (UPorto), José Carlos Pereira, Adélia Sequereira and Carlos Silva (all from IST/UTL), among others.

The Supercomputing Summer Institute, held at UCoimbra over 4 days, brought the world famous TACC team (www.tacc.utexas.edu) to Portugal (the team working on the largest computing system in the world for open science research, Ranger). John Boisseau, Karl Schulz, Kelly Gaither and Dan Stanzione shared their knowledge on using HPC, grid computing and massive data storage technologies with students from all over the country that attended this institute.

■ Internship opportunities in Austin Digital Media Companies open to Portuguese students

The internship program has officially begun. Those interested in internships must complete the application process which is described on the internship web page at http://colab.ic2.utexas.edu/dm/internships/. Applications may be submitted at any time, but the minimum time for processing and placement is 4 months, so those interested must plan ahead. This is to allow time to locate a suitable internship and address other related details.

Internships will last a minimum of 6 weeks, and interns will be placed at digital media companies in Austin. During their time in Austin, interns will not only have the opportunity to learn about the digital media industry through their internship assignment, but will also be able to participate in professionalization and leadership training with University of Texas students enrolled in the Digital Media Leadership Program. So apply now!

■ Marco Bravo (from MCTES Portugal visits Austin as part of his MSTC studies

From July 21 to August 11, 2008 Marco Bravo (Assistant of Secretary of State of Science, Technology and Higher Education, MCTES, Portugal) visited Austin, Texas to conclude his first semester in UT-Austin's MS in Technology Commercialization (MSTC), see:
http://www.ic2.utexas.edu/mstc/.

The year-long degree program is offered at IC2 Institute's Global Classroom at UT as well as on the Internet so students can access class lectures, course material, and faculty-student discussions from any location worldwide. Last year's class included two students from WitSoftware who took the MSTC program on-line from Coimbra. An important emphasis of the program is to have MSTC students form multidisciplinary teams work on technology transfer, business, commercialization, and marketing plans for technologies from universities, federal laboratories, and other sources worldwide.

Marco Bravo attends class via internet

David Gibson and Marco Bravo present UTEN to an MSTC class at IC2

In addition Marco visited with UT-Austin CoLab Program Directors and Co-Directors to discuss current FCT Research and Student Calls that will be an important component for the CoLab Program in the coming years as well as to discuss possible participation in the EUREKA Program for which he is the National Program Coordinator during the Portuguese Chairmanship, from July'08 to June'09. While in Austin Marco also visited with six Portuguese undergraduate students who were participating as part of CoLab in a 3-week National Science Foundation Workshop on "Multiscale Modeling and Analysis" in UT's Department of Mathematics, see photo.

■ WHAT'S HAPPENING IN AUSTIN?

NSF Mathematics Summer School brings Portuguese students to UT Austin

At this year's NSF Mathematics Summer School, six undergraduate Portuguese students were compressively selected and participated in a "Multiscale Modeling and Analysis" Summer Program. This Program took place at the University of Texas at Austin.

The Summer School was sponsored by the Department of Mathematics at the University of Texas under the National Science Foundation (NSF) Research and Training Grant (RTG) in Applied and Computational Analysis. The workshop sessions were held at UT's Department of Mathematics and Applied Computational Engineering and Sciences Center. The workshop included many speakers from UT's Institute for Computational Engineering and Sciences (ICES), www.ices.utexas.edu.

Marco Bravo, assistant of the Secretary of State for Science, Technology and Higher Education, who was in Austin at the time of this Summer School, was "very glad to visit with the Portuguese students at Austin and acknowledge their high value, skills, enthusiasm and joy for being given such a valuable learning opportunity. I'm pretty sure that, if not all, some will be very successful researchers and I hope to verify this hunch in the future".

For more information about this Summer Program which will be held the next four years please visit:
http://math.utexas.edu/rtg/school/index.html.

Portuguese students with Prentiss Riddle (CoLab@Austin) and Marco Bravo (MCTES Portugal)

■ THE UTEN CORNER

UTEN (University Technology Enterprise Network) Team Assesses Forty Technologies from Visit to Portugal

From July 16 to 20, 2008, a UTEN team from UT@ Austin visited Portugal to attend the MedTech i-techpartner Conference in Coimbra, and also made visits to universities, science parks and incubators in Lisbon, Porto, Maia and Braga. As a result of this trip, the team identified forty technologies primarily in the medical and biotechnology fields. UTEN@Austin staff is now assessing those technologies in Part 2 of the UTEN Pilot Phase, focusing first on 18 technologies that are most ready to benefit from UTEN@Austin services. Goals for the assessment are entrepreneurial coaching, identification of potential U.S. partners for sales and development, and identification of ventures which UTEN can assist in forming a U.S. presence. In total, UTEN has over eighty technologies in its portfolio, of which thirty have received assessments in the UTEN Pilot Phase.

Portuguese participants in the University Technology Enterprise Network (UTEN) visit Laura Kilcrease at Triton Ventures in Austin.
From left to right, visitors are José Manuel Mendonça; President INESC Porto and Director, UTEN@Portugal; Maria José Francisco, Instituto Superior Tecnico; Marco Bravo, Ministry of Science, Technology and Higher Education; Ana Paulo Amorim, University of Minho; and Maria Oliveira, University of Porto.

UTEN@Austin has regularly hosted visitors from Portugal representing ventures, institutions, and UTEN@Portugal leadership. In September and October 2008, UTEN will host visitors representing three technology ventures, three incubators and leadership from UTEN@Portugal.

■ ONGOING EDUCATIONAL OPPORTUNITIES

Digital Media:

ZON AWARD FOR CREATIVITY IN MULTIMEDIA – DEADLINE FOR ENTRIES: OCTOBER 3RD.
The competition is only open to Portuguese candidates and is divided in three areas: Applications, Content and Short films. The deadline for the submission of works is October 3rd at 6:00pm (Portuguese time). To know more about the award, go to: http://www.utaustinportugal.org/Events.aspx?event=160 or to http://premio.zon.pt.

We want to hear from you! Want to share your doubts and concerns about something you read? Want to see other topics featured in next month's newsletter? Want to contribute with articles or art? Please send all your feedback to sofia.santos@fct.mctes.pt.

UT Austin | Portugal
INTERNATIONAL COLLABORATORY FOR EMERGING TECHNOLOGIES, CoLab

THE UNIVERSITY OF TEXAS AT AUSTIN

FCT Fundação para a Ciência e a Tecnologia
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