

From December 3 to 5, in Catania The EELA project members had a very successful final Conference

Catania (Italy), December 5th, 2007: The 3rd EELA Conference, actually the last project Conference, which took place in the Aula Magna of the Department of Physics and Astronomy of University of Catania, from December 3rd to 5th, was a great success not only in terms of knowledge sharing, but of collaboration. With a focus centred in the development and use of grid applications in the most important scientific areas, the event showed that EELA in fact did achieve its main goal: build a bridge between the consolidated e-Infrastructure initiatives in Europe and those emerging in Latin America, through the creation of a collaborative network sharing an interoperable Grid infrastructure for advanced scientific applications. The bridge was perfectly built and the results are so evident that a new EELA initiative, EELA-2, will demonstrate in the near future the traffic capacity that that bridge can support.

The E-infrastructure shared between Europe and Latin America (EELA) project had a most than satisfactory final event; the 3rd EELA Conference was more than another grid event, a collaborative space where scientists of the most different and important areas interacted and interchanged experiences and knowledge, driving discussions that will help to define the future of research and e-Science development in Europe and Latin America.

During three days, 42 presentations related to the EELA and related international grid projects – mainly EUChinaGrid, EUIndiaGrid, EGEE, EUMEDGRID- were given to an audience composed by 55 outstanding scientists and academics of Latin America, Europe, China and the North of Africa. A perfect scenario, a fantastic group of brains, and an absolute compromise with collaboration, were the ingredients that helped this 3rd and final EELA Conference to be a hit, one that has helped to envision the promissory future that the new EELA-2 project (E-science grid facility for European and Latin American communities) will confront.

The presentations given during these three days were the following (you can download all of them at <http://indico.eu-eela.org/conferenceOtherViews.py?view=standard&confid=96>):

- A comparison between EELA and EELA-2, Bernard Maréchal (UFRJ/CEDERJ)
- The EELA Project e-Infrastructure update, Diego Carvalho (CEFET-RJ)
- e-Infrastructure: sharing scientific co-operation between Europe and Latin America (videoconference), Mario Campolargo (European Commission)
- EELA infrastructure - a governance case, Rafael Barbastefano (CEFET-RJ)
- EU-ChinaGrid Project presentation, Giuseppe Andronico (INFN)
- BioinfoGRID: Bioinformatics Challenges in Life Science, Luciano Milanese (CNR)
- EUMEDGrid Project presentation, Federico Ruggieri (INFN)
- EU-IndiaGrid infrastructure at work: applications & results, Stefano Cozzini (INFN)
- e-Science perspectives in Venezuela, Luis Núñez (EELA Member – University of Los Andes - Mérida - Venezuela)
- Progress of Grid technology in Argentina: Lessons learned from EELA, Maria Teresa Dova (National University of La Plata, Argentina)
- Developing a grid infrastructure in Cuba, Daniel López Aldama (CUBAENERGIA)
- Enabling efficient access to ATLAS data for Latin American collaborators, Dario Barberis (CERN & Genoa University/INFN)

- Climate modelling on the GRID - Experiences in the EU-project EELA, Valvanuz Fernandez (University of Cantabria - Spain)
- LEMDist: e-learning and e-science workspace, Jesús Cruz Guzmán (Universidad Nacional Autónoma de México, UNAM - México)
- Grid for Mesoamerican Archaeology, Lukas Nellen (ICN-UNAM - México)

Applications, communities and case studies:

- Deployment and Preparation of Metagenomic Analysis on the EELA Grid, Gabriel Aparicio (Universidad Politécnica de Valencia)
- GENECODIS-Grid: An online grid-based tool to predict functional information in gene lists, Ruben Nogales (Universidad Complutense de Madrid)
- GrEMBOSS: EMBOSS over the EELA GRID, Cesar Bonavides-Martinez (Center for Genomic Sciences - México)
- Optimizing the configuration of magnetic confinement devices with evolutionary algorithms and grid computing, Antonio Gómez-Iglesias (CIEMAT - Spain)
- The Virtual Institute for Integrative Biology (VIIB), David HOLMES (Center for Bioinformatics and Genome Biology, Fundación Ciencia para la Vida - Chile)
- AQUAGRID: The subsurface hydrology Grid service of the Sardinian regional Grid infrastructure, Fabrizio Murgia (CRS4 - Italy)
- Gridification of the JPEG2000 standard for the compression of Gigabytes satellite images, Sami Khanfir (UTIC - Tunisia)
- Generation Expansion Planning as Particle Swarm Optimization with Gridified SATyrus, Ramón Diacovo (COPPE/UFRJ - Brazil)
- Solving ILP Problems in the EELA infrastructure, Inês Dutra (Universidade do Porto - Portugal)
- How to access databases from EGEE-II grid environment: a comparison of tools and middlewares, Giuliano Taffoni (INAF - Italy)
- Porting of Bio-Informatic Tools for Plant Virology on a Computational Grid, Gaetano Lanzalone (INFN - Italy)
- Events simulation production for the BaBar experiment using the grid approach content, Armando Fella (INFN - Italy)
- Distributed Analysis Experience using Ganga on an ATLAS Tier2 infrastructure, Farida Fassi (IFIC-CSIC-UV - Spain)
- Experience running an ATLAS distributed Tier-2 and an Analysis facility infrastructure Tier-3 for ATLAS experiment at IFIC-Valencia, Santiago Gonzalez de la Hoz (IFIC - Instituto de Física Corpuscular Valencia - Spain)
- Experience with Large Scale Simulations on the EGEE Grid for the AUGER collaboration, Jaroslava Schovancova (CESNET – Czech Republic)
- LiveWN: CPU scavenging in the Grid Era, Fotis Georgatos (National Technical University of Athens - Greece), Giannis KOURETIS (National Technical University of Athens)
- VOMS Server replication process in I2G and EELA Project, Bruno Silva (LIP - Portugal)
- Grid monitoring in EUChinaGrid infrastructure, Lanxin Ma (CERN/IHEP)
- Operating a Transatlantic Grid Infrastructure, Alexandre Duarte (CERN/UFCG)

e-Infrastructures case studies:

- Network support for e-Science in Latin America, Michael Stanton (Rede Nacional de Ensino e Pesquisa - Brazil)
- gLibrary/DRI: A grid-based platform to host multiple repositories for digital content, Raul Ramos Pollán (CETA-CIEMAT - Spain)
- Robust and Resilient Services – How to design, build and operate them, Patricia Mendez Lorenzo (CERN)
- Toward a Grid Workflow Formal Composition, Leila Jemni (Faculty of Sciences of Tunis)
- A Worldwide Production Grid Service Built on EGEE and OSG Infrastructures – Lessons Learnt and Long-term Requirements, Patricia Mendez Lorenzo (CERN)

- GENIUS/EnginFrame Grid Portal: VOMS Proxy creation, new features and enhancements, Valeria Ardizzone (INFN - Italy)
- EELA Grid infrastructure MPI support, a success case, Pedro Henrique Rausch Bello (UFRJ - Brazil)
- Interoperability studies between the GTRS and EUMEDGRID e-Infrastructures, Heithem Abbes (UTIC - Tunisia)
- Grid Technology and Quality Assurance, Adriano Rippa (Engineering Ingegneria Informatica S.p.A. - Italy)

Most of the applications presented during this Conference, will have an important place in the EELA-2 project that will have its Kick-off Meeting during April of 2008 in the city of Trujillo in Spain, where the CETA CIEMAT (leader institution) is placed.

For further information, please visit:

- <http://www.eu-eela.org/conference3/>
- <http://www.eu-eela.org>
- <http://en.wikipedia.org/wiki/Eela>
- <http://documents.eu-eela.org>
- <http://www.youtube.com/watch?v=xDBqAQz2n3s>
- <http://www.youtube.com/watch?v=LGlc7jutEHA>

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