



Black Sea Universities
Network



"Ovidius" University of Constantza



Hewlett Packard
Romania

INTERNATIONAL SUMMER SCHOOL ON

HIGH PERFORMANCE COMPUTING & CLOUD COMPUTING FOR SUSTAINABLE DEVELOPMENT

Period: 12th - 16th September, 2011

Place: "Ovidius" University of Constantza
124, Mamaia Av, Constantza, Romania

Contact person:

Claudiu Fercu

Tel: +40 241 545 388

E-mail: cfercu@univ-ovidius.ro



International Summer School on: High Performance Computing and Cloud Computing for Sustainable Development

September, 12th – 16th 2011

Aim & objectives:

The summer school is organized by the **Black Sea Universities Network** in cooperation with **Hewlett Packard Romania** on the premises of the “**Ovidius**” **University of Constantza** and with the support of different partners.

The objectives of the Summer School are the followings:

- To evaluate the state of the art concerning high performance computing and cloud computing hardware and software solutions appropriate for the development of education and scientific research, distributed databases and other cooperative multi-user applications;
- To evaluate the interoperability aspects that have to be taken in consideration in dedicated projects for education and scientific research;
- To present end-users applications in the field of multi-criteria analysis of sustainability and other scientific research and education applications using HPC and CC.

Target audience:

The summer school is addressing researchers, PhD students and research fellows working in the field of IT&C modelling and simulations on sustainable development.

Lecturers:

Prof. Michael Zgurovsky, National Technical University of Ukraine “KPI”, Ukraine

Prof. Flavio Fontana, ENEA, Italy

Prof. Aurel Stanescu, "Politehnica" University of Bucharest, Romania

Prof. Dorin Carstoiu, "Politehnica" University of Bucharest, Romania

Prof. Eden Mamut, Black Sea Universities Network

Assoc. Prof. Eugen Zaharescu, “Ovidius” University of Constantza, Romania

PhD. Sorin Cheran - Hewlett Packard

Andrei Balcu - Hewlett Packard

Rares Juretschi - Hewlett Packard

Lecturers on behalf of Intel, Microsoft and VMWARE to be appointed.

Application Form

Name: _____

Gender: _____

Organization/
Faculty/Department: _____

Position: _____

Address: _____

Phone/Fax: _____

E-mail: _____

I shall arrive on: _____

I shall depart on: _____

Registration fee: 50 € without including accommodation and meals
 150 € including accommodation in a double room and meals
 200 € including accommodation in a single room and meals

Observations: _____

Date: _____

Signature: _____

Accommodation will be provided at the Aurora Hotel, in Mamaia, Constantza
http://www.hotelaurora.ro/index_gb.html

This application form needs to be sent before August 25th 2011 by fax, e-mail or mail post to Black Sea Universities Network, "Ovidius" University of Constantza, Address: 124, Mamaia Avenue, 900527 Constantza, Romania, Phone: +40 241 545388, Fax: +40 241 545388, E-mail: cfercu@univ-ovidius.ro. Contact person: Claudiu FERCU

Summer School Agenda

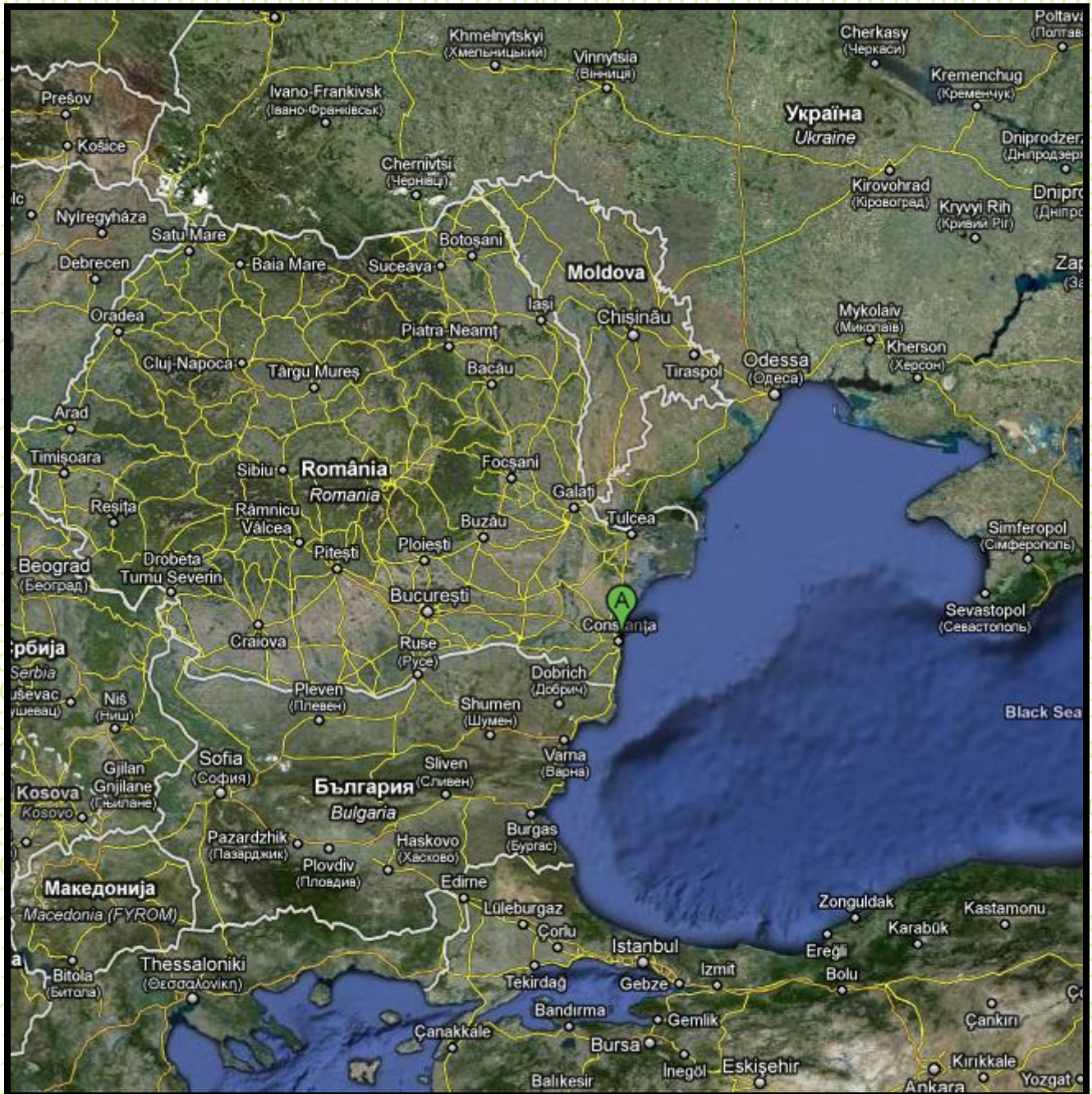
Hour	Type	Monday - September 12, 2011	Tuesday - September 13, 2011	Wednesday - September 14, 2011	Thursday - September 15, 2011	Friday - September 16, 2011
8.00-9.00						
8.45-9.00		Registration	Review Monday + Day Presentation <i>Hewlett Packard</i>	Review Tuesday + Day Presentation <i>Hewlett Packard</i>	Review Wednesday + Day Presentation <i>Hewlett Packard</i>	Review Thursday + Day Presentation <i>Hewlett Packard</i>
9.00-9.50	Course	Summer School Presentation <i>Mihai Guran - Hewlett Packard</i> <i>Eden Mamut - Black Sea Universities Network</i>	Title to be specified <i>Intel Corporation</i>	Title to be specified <i>Microsoft Corporation</i>	System Analysis Methods Applied to Sustainable Development <i>Prof. Michael Zgurovsky - National Technical University of Ukraine "KPI"</i>	System Analysis Methods Applied to Sustainable Development <i>Prof. Michael Zgurovsky - National Technical University of Ukraine "KPI"</i>
9.50-10.40	Course	Where are we in HPC, where are we going? <i>PhD. Sorin Cheran - Hewlett Packard</i>	Interoperability Solutions for Digital Data Platforms <i>Prof. Aurelian Mihai Stănescu - "Politehnica" University of Bucharest</i>	Interoperability Solutions for Digital Data Platforms <i>Prof. Aurelian Mihai Stănescu - "Politehnica" University of Bucharest</i>	Invited Lecture	HPC & CC Tools for Sustainable Development <i>Prof. Eden Mamut - Black Sea Universities Network</i>
10.40- 10.50		Coffee Break	Coffee Break	Coffe Break	Coffe Break	Coffe Break
10.50- 11.40	Course	High Performance Computing Introduction <i>PhD. Sorin Cheran - Hewlett Packard</i>	Distributed Databases <i>Prof. Dorin Cârstoiu - "Politehnica" University of Bucharest</i>	Distributed Databases <i>Prof. Dorin Cârstoiu - "Politehnica" University of Bucharest</i>	Invited Lecture	HPC & CC Platform for Scientific Research & Education <i>Claudiu Fercu - „Ovidius” University of Constantza</i>
11.40-12.30	Course	Servers and Storage: State of the Art <i>Andrei Balcu - Hewlett Packard</i>	Interconnect for HPC <i>PhD. Sorin Cheran - Hewlett Packard</i>	Virtual Environments for Network Interfaces <i>Prof. Flavio Fontana - ENEA, Italy</i>	Virtual Environments for Network Interfaces <i>Prof. Flavio Fontana - ENEA, Italy</i>	Open Campus Cloud Computing for Higher Education Institutions <i>Assoc. Prof. Eugen Zaharescu - „Ovidius” University of Constantza</i>
12.30-14.00		Lunch	Lunch	Lunch	Lunch	Lunch
14.00-14.45	Course	Cluster Management Solutions: CMU and Open Source <i>PhD. Sorin Cheran - Hewlett Packard</i>	Infiniband Overview (basics and Subnet managers) <i>PhD. Sorin Cheran - Hewlett Packard</i>	Message Passing Interface Intro <i>PhD. Sorin Cheran - Hewlett Packard</i>	Invited Lecture	Title to be specified <i>VMWARE</i>
14.45-15.30	Course	Cluster Management Utility <i>PhD. Sorin Cheran/ Andrei Balcu Hewlett Packard</i>	Infiniband <i>Andrei Balcu - Hewlett Packard</i>	Message Passing Interface flavours and deep dive <i>PhD. Sorin Cheran - Hewlett Packard</i>	Cloud Computing status and basics <i>Rares Juretschi - Hewlett Packard</i>	Virtualization techniques (Wmware + Hyper V) <i>Rares Juretschi - Hewlett Packard</i>
15.30-15.45		Coffee Break	Coffee Break	Coffe Break	Coffee Break	Coffee Break
15.45-17.00	Lab	Cluster Deployment 1 <i>PhD. Sorin Cheran/ Andrei Balcu - Hewlett Packard</i>	OFED Installation <i>PhD. Sorin Cheran/ Andrei Balcu - Hewlett Packard</i>	MPI Lab1 <i>Hewlett Packard - Team</i>	Cloud Installation <i>Rares Juretschi/Andrei Balcu - Hewlett Packard</i>	Lab Virtualisation <i>Rares Juretschi/Andrei Balcu - Hewlett Packard</i>
17.00-18.00	Lab	Cluster Deployment 2 <i>PhD. Sorin Cheran/ Andrei Balcu - Hewlett Packard</i>	OFED Testing <i>PhD. Sorin Cheran/ Andrei Balcu - Hewlett Packard</i>	MPI Lab2 <i>Hewlett Packard - Team</i>	Cloud Installation <i>Rares Juretschi/Andrei Balcu - Hewlett Packard</i>	Discussions about the content of the courses, recommendations for improvement and further cooperation plans
18.00-18.10	Wrap	Wrap-up Monday	Wrap-up Tuesday	Wrap-Up Wednesday	Wrap-Up Thursday	

Location:

The Council Hall of "Ovidius" University of Constantza

124, Mamaia Av.

900527 Constantza, Romania



You can find the exact place of school from the link below:

<http://maps.google.com/maps?saddr=44.193959,28.650284&hl=en&ll=44.187497,28.641701&spn=0.093058,0.154324&sll=44.193713,28.652161&sspn=0.005815,0.009645&mra=dme&mrsp=0&sz=17&t=h&z=13>