



Enabling Grids for E-scienceE

## **EGEE-II activities overview**

# **NA3: Training and Induction**

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*GRNET*

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*Geneva, Switzerland*

[www.eu-egee.org](http://www.eu-egee.org)



- **Training Model of Work**
- **t-Infrastructure**
- **Past and Future trainings**
- **Experiences / Ideas**

- **GRNET undertakes overall coordination of the training and induction activities in Greece**
- **Central team of tutors has been built comprised of both GRNET and Third parties\* experts**
  - The central team travels around Greece delivering the trainings
  - Production and localization of training material and courses from introductory to advanced user material (material consolidation)
  - Interaction with the other SEE and EGEE-II partners for feedback and improvements
- **A call for the hosting of the trainings is sent every 6 months to allow planning for the next months**
  - The call reaches all institutes connected to GRNET (around 100 institutes)
  - The hosting institute is also responsible for handling local logistics and facilities (rooms, projector, etc.) including local announcement/publicity
  - According to their responses the training plan is fixed (but NOT always prompt responses!)
- **GRNET provides the appropriate hardware infrastructure and services (course infrastructure) based on HellasGrid / EGEE-II**
  - \*Third parties are Greek Universities and Research Centers

- **Aris Sotiropoulos, GRNET, Overall Coordination**
- **Fotis Georgatos, GRNET, Head of Training Team**
- **Vangelis Floros, Demokritos, User and Application Support**
- **Nasia Asiki, ICCS, Induction training**
- **Vangelis Koukis, ICCS, Advanced Courses (e.g. MPI)**
- **Further experts staff the team upon request**
  - E.g. for site administration experts from the ROC join
- **Training is delivered in Greek – Presentations in some cases in English (eg. in Cyprus, or in technical matters, eg. systems administration)**



**Aris Sotiropoulos**



**Fotis Georgatos**



**Vangelis Floros**



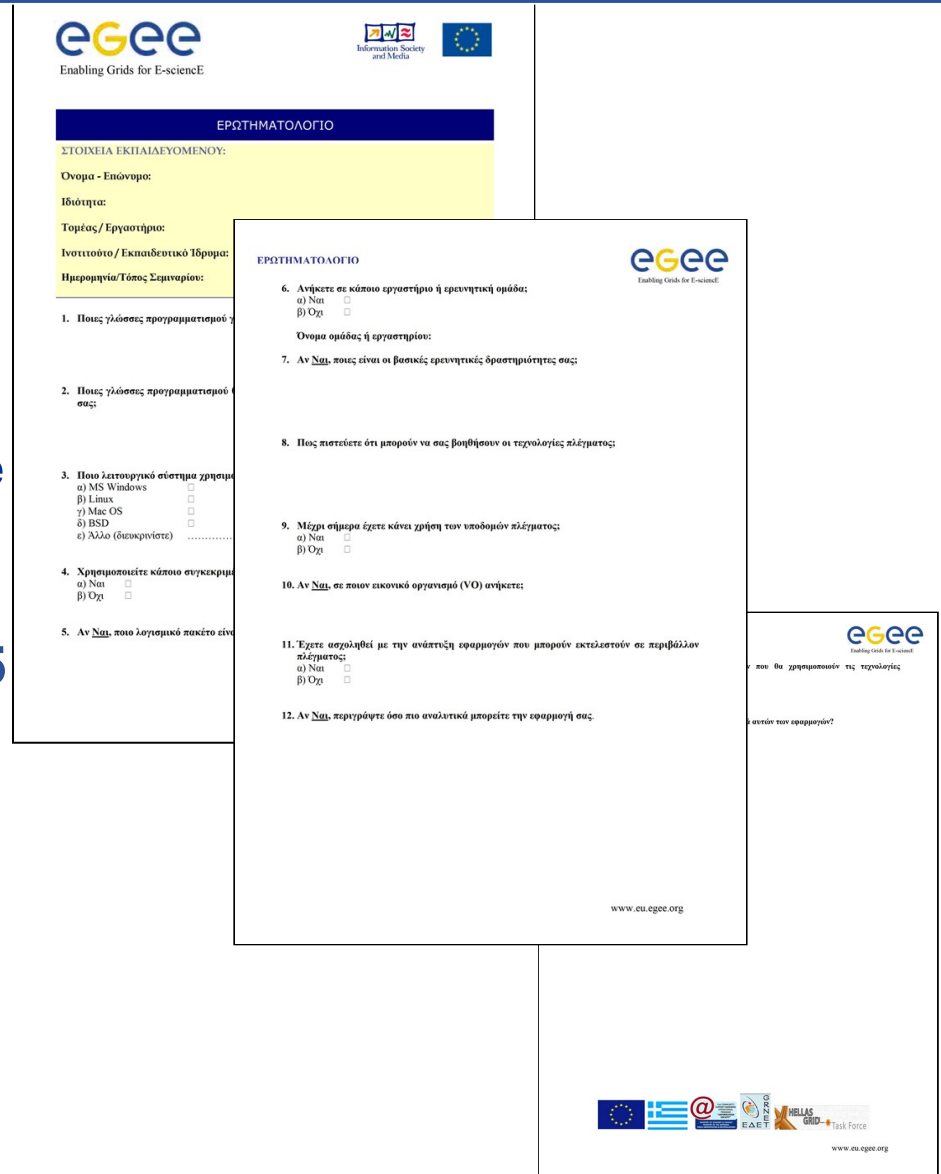
**Nasia Asiki**



**Vangelis Koukis**

Timeline	Day #1	Day #2
Scope:	<b>Novices</b>	<b>'Bite-the-Bullet'</b>
09:00-11:00	<b>Introduction to the Grid</b> (Major concepts and ideas)	<b>How to enter the Grid</b> (Certificates & VO registration)
11:30-13:30	<b>Hands-On: Laboratory</b> (submission using our t-infrastructure)	<b>Grid and Applications</b> (Success Stories & ad-hoc: MPI)
14:30-16:30	<b>EGEE Grid &amp; E-science</b> (LCG/EGEE & SEE federation)	<b>Sysadmins &amp; the Grid</b> (Highly Technical, Anything goes!)
Total hours	3x2hrs + 2hrs breaks = 8hrs	3x2hrs + 2hrs breaks = 8hrs

- In order to assess the suitability and applicability of our training events we introduced a questionnaire-based survey
  - A new version has been produced for EGEE-II with more details on applications and user orientation
- Trainings questionnaire with 15 major questions, cover:
  - User's background and profile
  - Assessment of grid potential, both as individual and as team
  - Assessment of training needs



**EGEE**  
Enabling Grids for E-scienceE

Information Society and Media

ΕΡΩΤΗΜΑΤΟΛΟΓΙΟ

ΣΤΟΙΧΕΙΑ ΕΚΠΑΙΔΕΥΟΜΕΝΟΥ:

Όνομα - Επώνυμο:  
 Ιδιότητα:  
 Τομέας/ Εργαστήριο:  
 Ινστιτούτο / Εκπαιδευτικό Ίδρυμα:  
 Ημερομηνία/Τόπος Σεμιναρίου:

1. Ποιες γλώσσες προγραμματισμού χρησιμοποιείτε;

2. Ποιες γλώσσες προγραμματισμού χρησιμοποιείτε;

3. Ποιο λειτουργικό σύστημα χρησιμοποιείτε;  
 α) MS Windows   
 β) Linux   
 γ) Mac OS   
 δ) BSD   
 ε) Άλλο (διευκρινίστε) .....

4. Χρησιμοποιείτε κάποιο συγκεκριμένο λογισμικό;  
 α) Ναι   
 β) Όχι

5. Αν **Ναι**, ποιο λογισμικό πακέτο είναι;

6. Ανήκете σε κάποιο εργαστήριο ή ερευνητική ομάδα;  
 α) Ναι   
 β) Όχι   
 Όνομα ομάδας ή εργαστηρίου:

7. Αν **Ναι**, ποιες είναι οι βασικές ερευνητικές δραστηριότητές σας;

8. Πως πιστεύετε ότι μπορούν να σας βοηθήσουν οι τεχνολογίες πλέγματος;

9. Μέχρι σήμερα έχετε κάνει χρήση των υποδομών πλέγματος;  
 α) Ναι   
 β) Όχι

10. Αν **Ναι**, σε ποιον εθνικον οργανισμό (VO) ανήκете;

11. Έχετε ασχοληθεί με την ανάπτυξη εφαρμογών που μπορούν εκτελεστούν σε περιβάλλον πλέγματος;  
 α) Ναι   
 β) Όχι

12. Αν **Ναι**, περιγράψτε όσο πιο αναλυτικό μπορείτε την εφαρμογή σας.

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ΕΛΛΑΣ  
 HELLAS GRID Task Force

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- **Our T-infrastructure**
  - Training VO with access to the HellasGrid production infrastructure
  - Training CA (“spin-off” of the HellasGrid CA)
  - High priority queues, so trainees can actually see the results of their simple Grid applications
  - Administration team available during the training courses
- **Training accounts in user certificates valid only during training sessions**
- **New portal integrating user registration and certification**
  - To be operational after all Greek Registration Authorities (RAs) are up and running (included in the Third parties contracts)
- **Trainings have been video recorded**
  - Soon available as video on demand
  - Access Grid training is also planned (also training on Access Grid!)



Description	Courses	Average Attendance	Infrastructure	Days
3 <sup>rd</sup> parties EGEE advanced induction	2	45	Computer lab	2-3
Trainers' training course (*as part of 3 <sup>rd</sup> parties EGEE advanced course)	1*	20	Computer lab/ Video conferencing	1
New Grid User Induction course	2	30	None	1
EGEE advanced course (including hands-on exercises & application basics)	9	28	Computer lab	2
<b>Total</b>	<b>14</b>			

**392 \* 25 event-participant-days**



## 7 Advanced Training activities are planned till December '06

- **University of Cyprus**
  - 11 September '06 (1 day, 20 attendants) + November '06 (in progress)
- **Technical University of Crete (Chania)**
  - 18-19 September '06 – Done! (2 days, 20 attendants)
- **National Observatory of Athens**
  - 2-3 October '06 (2 days, 28 have registered)
- **National and Kapodistrian University of Athens**
  - End of October '06 (2 days)
- **University of the Aegean**
  - November '06 (2 days)
- **University of Patras**
  - November '06 (2 days)
- **National Technical University of Athens**
  - December '06 (2 days)













- **Organisational**

- In EGEE phase I third parties were contracted to deliver Grid trainings
  - However they could deliver induction-trainings **only** mainly because of lack of in depth expertise in Grid technologies. They requested support from the EGEE SEE Greek ROC branch and other EGEE / HellasGrid teams
  - At the end of EGEE the central team was formed to tackle all types of courses (comprised by experts all over Greece)
- Preparing a training calendar plan in advance is a challenge
  - Many unforeseen difficulties (changes in the dates of students exams or classes clashing with the trainings)

- **Technical**

- Assigning User Registration to Hosting institutes posed difficulties in automating several procedures (e.g. creating trainee database, gathering training material)
  - Centralized web portal integrating user registration
  - Single place where all interested people can learn about all past and planned Grid training activities
- Using ordinary priority queues for simple training applications can make trainees disappointed,
  - Jobs not completed till the end of the training course
- Grid infrastructure glitches during trainings might be discouraging



- **Specific presentation templates for specific kind of training are very helpful (e.g. Grid induction or applications)**
  - Single repositories with all kinds of presentation material and not simple search mechanism proved difficult and time-consuming
  - The NA3 Editorial Task Force (ETF) is a good start and should be encouraged!  
<http://www.egee.nesc.ac.uk/NA3ETF/>
- **Intra and cross-federation collaboration should be encouraged**
  - e.g. exchange of trainers in fields where federations lack expertise
  - Central coordination on this is required
- **A live NA3 discussion forum / wiki is very helpful**
  - The new ETF wiki is a good start!
  - The NA3 mailing list should be also more active, but also an active trainers mailing list might be useful
- **Gridification of new applications is challenging and needs the whole cycle to work efficiently (dissemination-training-user-application support)**
  - The next step after trainings (user registration and support) is important  
[www.hellasgrid.gr/access](http://www.hellasgrid.gr/access) <http://www.hellasgrid.gr/user-request>
- **Difficulty in bringing together Computer Science people (good programmers) with other Sciences people**

# Thank You

[egee-training at admin.grnet.gr](http://admin.grnet.gr)