



**SEVENTH FRAMEWORK PROGRAMME
Research Infrastructures**

**INFRA-2010-2.3.1 – First Implementation Phase of the European High
Performance Computing (HPC) service PRACE**



PRACE-1IP

PRACE First Implementation Project

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First Scientific Conference**

Final

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Author: Anni Jakobsson, CSC
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	Contributors:	
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References and Applicable Documents

- [1] <http://www.deisa.eu>
- [2] <http://www.prace-ri.eu>
- [3] <http://www.prace-project.eu>
- [4] <http://www.alphagalileo.org>
- [5] Deliverable D4.1. PRACE user forum (PRACE-1IP M12 deliverable)
- [6] DEISA Digest 2011 available online at: http://www.deisa.eu/news_press/media

List of Acronyms and Abbreviations

CSC	Finnish IT Centre for Science (Finland)
DECI	DEISA Extreme Computing Initiative
DEISA	Distributed European Infrastructure for Supercomputing Applications. EU project by leading national HPC centres
EC	European Commission
EGI	European Grid Initiative
EESI	Exascale Software Initiative project
ESFRI	European Strategy Forum on Research Infrastructures; created roadmap for pan-European Research Infrastructure
HIPOP	High Performance Opportunities -project
HPC	High Performance Computing; Computing at a high performance level at any given time; often used synonym with Supercomputing
HPC-Europa2	Pan-European Research Infrastructure on High Performance Computing
IPB	Institute of Physics, Belgrade
ISC	International Supercomputing Conference; European equivalent to the US based SCxx conference. Held annually in Germany
PRACE	Partnership for Advanced Computing in Europe; Project Acronym
PRACE RI	PRACE Research Infrastructure
PRACE-1IP	PRACE First Implementation Phase project
RZG	Rechenzentrum Garching, Germany
STRATOS	PRACE advisory group for STRAtegic TechnOlogieS
Tier-0	Denotes the apex of a conceptual pyramid of HPC systems. In this context the Supercomputing Research Infrastructure would host the Tier-0 systems; national or topical HPC centres would constitute Tier-1

Executive Summary

PRACE, the Partnership for Advanced Computing in Europe, and DEISA, the Distributed European Infrastructure for Supercomputing Applications, merged for the third time their annual science symposia into one big European HPC (High Performance Computing) event: The DEISA PRACE Symposium 2011. This symposium took place from April 13 to April 14 in Helsinki, Finland, and was hosted by CSC at the National Museum of Finland.

The theme of the symposium was “Advancements in Petaflop Computing”, it was of major interest to a broad audience: from scientific users, EC representatives, HPC technology experts and vendors to government representatives and industry partners. The symposium attracted over 200 participants from 26 countries.

Prominent keynote speakers from all over the world gave their global perspectives of High Performance Computing. The symposium also featured speakers from different science communities. The scientific fields covered were astrophysics, quantum computing, space research, engineering, climate research, materials science, biophysics, life sciences, turbulence, nuclear physics, chemistry, and bio-engineering. Speakers from the DEISA project presented highlights of the DEISA project, which ended in April 2011. Tier-1 services as provided by DEISA will be integrated in the PRACE Research Infrastructure (RI).

The symposium also included the first PRACE User Forum. In this session PRACE representatives presented the services the PRACE RI offers to European scientists. The session ended with a panel discussion where HPC users expressed their opinions about the services of PRACE RI and the future of the PRACE User Forum. A group of HPC users from different scientific areas was established in order to facilitate fruitful PRACE User Forums in the future. The activities for the creation of a sustainable User Forum will be followed up by PRACE together with the group of users established during the first User Forum and other users from various scientific fields that have HPC needs for advancing their research work.

The DEISA PRACE symposium was very successful regarding to the number of participants, the relations to the European scientific communities established, and the overall feedback received from the participants.

The symposia series was carried out as DEISA Symposia in 2005 in Paris, 2006 in Bologna, 2007 in Munich, 2008 in Edinburgh, and was continued as DEISA PRACE Symposia 2009 in Amsterdam, 2010 in Barcelona and 2011 in Helsinki.

1 Introduction

The vision of PRACE is to enable and support European global leadership in public and private research and development. PRACE seeks to realize this vision by contributing to the advancement of European competitiveness in industry and research through provisioning of world leading persistent computing and data management resources and services.

The PRACE RI is a pan-European infrastructure seated in Brussels and established as an international Belgium non-profit association of European government representative organisations responsible for High Performance Computing resources and services for public research.

Supercomputers enable scientists and engineers to solve today's problems and to develop the new technology for tomorrow's industry, affecting national employment patterns and national wealth. To further the aim of enabling the academic and industrial research in Europe to develop and use world class HPC, it is important to strengthen contacts with and between scientific communities; in particular those who are involved in helping to develop the very science case on which this effort is based. To this end, the PRACE-1IP project is responsible for organising two scientific conferences during the course of the project.

The first of these, the DEISA PRACE Symposium 2011, was held on April 13–14, 2011 in Helsinki, Finland. This event is the focus of the present report.

2 Motivation and venue

The symposia series was carried out as DEISA Symposia in 2005 in Paris, 2006 in Bologna, 2007 in Munich, 2008 in Edinburgh, and was continued as DEISA PRACE Symposia 2009 in Amsterdam, 2010 in Barcelona and 2011 in Helsinki. The DEISA PRACE Symposium 2011 was the last event in this series since the DEISA project ended in April 2011.

The symposium took place at the National Museum of Finland in the heart of Helsinki and it was hosted by CSC. The location was decided in 2011 at the symposium in Barcelona.

The aim of the symposium was to reach the scientific users, HPC technology experts and vendors, EC and government representatives and industry partners that are likely to contribute or benefit from the PRACE Research Infrastructure.

The theme of the symposium was “Advancements in Petaflop Computing”. Prominent keynote speakers from all over the world presented the current development in extreme computing technologies and challenges in computational science. Speakers on the first day included **Zoran Stancic** deputy director general DG INFSO of the European Commission, **Leena Vestala** of the Ministry of Education, Culture and Science (Finland) **Achim Bachem**, Coordinator of PRACE (Germany), **Thom Dunning** from the University of Illinois at Urbana-Champaign (USA), **Xue-bin Chi** from the Chinese Academy of Sciences (China), and **David Keyes** from the King Abdullah University of Science and Technology (Saudi Arabia).

During the sessions on ‘Challenges in Computational Science’, speakers from different scientific communities which are supported by DEISA and are planning to use the services provided by the PRACE Research Infrastructure presented their recent findings using HPC. The scientific fields covered were astrophysics, quantum computing, space research, engineering, climate research, materials science, biophysics, life sciences, turbulence, nuclear

physics, chemistry, and bio-engineering. Speakers from the DEISA project presented highlights of the DEISA project, which ends in April 2011. The Tier-1 services as provided by DEISA will be integrated in the PRACE Research Infrastructure (RI). The first call for combined Tier-0 and Tier-1 resources, starting on May 2, 2011, was also announced during the symposium.

The symposium also included the first PRACE User Forum. In this session PRACE representatives presented the services the PRACE RI offers to European scientists. The session ended with a panel discussion where HPC users expressed their opinions about the services of PRACE RI and the future of the PRACE User Forum. A group of HPC users from different scientific areas was established in order to facilitate fruitful PRACE User Forums in the future.

The programme is detailed in this report in section 4.5.



Figure 1. The National Museum of Finland. © Comma Image

3 Organising committees

The organisation of this symposium was divided into two groups: the programme and the local organising committee. The programme committee was in charge of creating the programme, and inviting the speakers. The local organisation committee was in charge of dissemination and all practicalities related to the symposium.

The organising of the symposium started in April 2010 when the venue was booked. Organisation meetings at CSC started in December 2010, first with biweekly meetings followed by weekly meetings. Both programme committee and local organising committee attended these meetings. In addition, teleconferences were arranged with those program committee members who were not from CSC. In total 12 meetings were arranged.

Members of the programme committee:

Juha Fagerholm, CSC (DEISA representative)
Hermann Lederer, RZG (DEISA representative)
Pekka Lehtovuori, CSC (DEISA representative)
Klaus Schilling, Cyprus Institute (PRACE representative)
Ari Turunen, CSC (PRACE representative)

Members of the local organising committee:

Anni Jakobsson, CSC (PRACE representative)
Tiina Timonen, CSC (DEISA representative)
Paula Pesonen, CSC (local organiser)

An email alias was created to reach the local organisers: deisaprace2011@postit.csc.fi

4 Dissemination

One of the aims of the symposium was to provide an opportunity for PRACE to strengthen its links with HPC initiatives all over the world, and to learn about the results achieved with DEISA and PRACE resources, and to liaise with scientific users in Europe and beyond. The symposium was intended for a broad audience: from scientific users, HPC technology experts and vendors to government and EC representatives and industry partners. This was taken into account when sending out invitations and creating the programme.

The links and relationships created in the symposium are described in this document chapter 6.

4.1 Invitations and publicity

The programme committee took care of inviting the speakers to the seminar on behalf of PRACE project coordinator, Prof. Dr. **Achim Bachem** and DEISA project coordinator, Dr. **Stefan Heinzl**. The programme consisted of a total of 25 speakers and 7 chairs for the different sessions. The detailed programme is reported in section 4.5.

Invitations were sent via DEISA and PRACE dissemination channels to potential participants via email. Two press releases were made about the event (see more in section 4.2), and the event was also announced in two issues of the Scientific Computing World magazine (December/January edition and February/March edition 2011). The event was also advertised in the DEISA and PRACE newsletters, and event specific pages were created for both DEISA [1] and PRACE websites [2 and 3].

The event was free of charge for the participants. A total of 209 participants registered for the event. A more detailed summary of the participants is described in this report's section 6.



Figure 2. Over 200 participants took part to the DEISA PRACE Symposium 2011. The venue was fully booked.

4.2 Press releases

Three press releases – two before the event and one after the symposium were published on DEISA and PRACE websites. The press releases were also sent to various online HPC magazines, such as HPCWire, ISTGW, Inside HPC, and Scientific Computing World. The press releases were also distributed via the AlphaGalileo [4] service – the world's leading source of European research news – which reaches over more than 7,000 media professionals worldwide.

The press releases were published on the following dates:

“DEISA PRACE Symposium 2011 in Helsinki”, 21.01.2011

“DEISA PRACE Symposium 2011 programme finalised”, 09.03.2011

“DEISA PRACE Symposium 2011 attracted over 200 participants from 26 countries”, 28.04.2011

4.3 Websites

The PRACE [2 and 3] and DEISA[1] websites featured specific sections for the event. The URLs of the websites are:

PRACE website:

<http://www.prace-project.eu/events/deisa-prace-symposium-2011/> and www.prace-ri.eu

DEISA PRACE Symposium 2011, April 13-14 2011, Helsinki, Finland



The DEISA PRACE Symposium 2011 will be arranged on April 13-14 in Helsinki, Finland, at the National Museum of Finland.

Presentations

Presentations from the symposium are available at www.prace-project.eu/documents

Programme

The symposium is featuring keynote speakers from the US, Asia and Europe as well as scientific speakers from all over Europe, covering major computational science areas in HPC.

The DEISA PRACE Symposium is arranged now for the third time. It is a major European HPC event. The symposium will feature speakers from different scientific communities as well as decision makers in

science. The symposium is of major interest to a broad audience: from scientific users, HPC technology experts and vendors, government, EC representatives and industry partners.

The 1st PRACE User Forum is included in the programme of the DEISA PRACE Symposium. The 1st PRACE User Forum will mark the start up of a forum where the PRACE users can discuss their experiences and expectations from the PRACE HPC services and resources. More information about the User Forum in [a flyer \(pdf\)](#).

More detailed [programme here \(pdf\)](#).

Poster exhibition

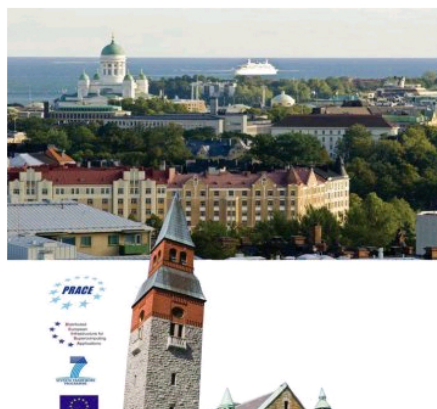
Figure 3: DEISA PRACE Symposium 2011 website (PRACE website)

DEISA website: http://www.deisa.eu/news_press/symposium/Helsinki2011

- DEISA News & Events
 - » Archive 2004 - 2007
- Related News & Events
- DEISA Press Releases
 - » Subscription of Press Releases
 - » Press Releases (2004-2007)
- Press Contact
- DEISA Media
 - » Media Archive (2004-2007)
- DEISA Newsletter
- DEISA Symposium 2011
 - » Barcelona 2010
 - » Amsterdam 2009
 - » Edinburgh 2008
 - » Munich 2007
 - » Bologna 2006
 - » Paris 2005
- DEISA Training
 - » Training (2005 - 2008)

DEISA PRACE Symposium 2011

DEISA, the Distributed European Infrastructure for Supercomputing Applications, and PRACE, the Partnership for Advanced Computing in Europe, are inviting again to their joint annual science symposium as an important European HPC event: The DEISA PRACE Symposium 2011 which will take place from April 13 to April 14 at the National Museum of Finland in Helsinki, Finland.



DEISA Highlights

Figure 4: DEISA PRACE Symposium 2011 website (DEISA website)

Both websites contained information about the programme, poster exhibition, flyer, venue, map, and transportation and hotel options. Registration to the event was conducted via the PRACE website.

CVs and abstracts of the speakers were gathered to the PRACE website:

<http://www.prace-project.eu/documents/cvs-and-abstracts-of-the-deisa-prace-symposium-2011-speakers/>

This link was distributed to the symposium participants.

After the symposium all presentations from the event were uploaded to both websites. All participants and speakers were informed about the availability of the presentations after the event.

4.4 Flyer

A flyer about the symposium (Figure 5) was created before the symposium. The flyer was sent as a pdf attachment with the email invitations to the possible participants, and used also as a poster outside the venue.



Figure 5: DEISA PRACE Symposium 2011 flyer

4.5 Symposium programme

The final programme was available online at the DEISA and PRACE websites, and also delivered to participants in the conference kit.

PROGRAMME

DEISA PRACE SYMPOSIUM 2011

April 13–14, 2011

National Museum of Finland

Helsinki, Finland

TUESDAY, APRIL 12

20:00 Dinner for Speakers at Restaurant Töölönranta

WEDNESDAY, APRIL 13

8:00 Registration opens

9:00 Start of the Symposium

Welcome Address by **Kimmo Koski**, Managing Director, CSC –IT Center for Science Ltd., Finland

9:20 – 10:45 “World-wide Perspectives 1”

Chair: **Kimmo Koski**

9:20 **Leena Vestala**

Director, Division for Higher Education and Science, Ministry of Education, Culture and Science, Finland

Finnish Science Policy and Research Infrastructures

9:40 **Zoran Stancic**

Deputy Director-General, Information Society and Media Directorate-General, European Commission, Belgium

The Future of High Performance Computing in Europe

10:10 **Achim Bachem**

Chairman of the Board of Directors, Forschungszentrum Jülich GmbH and Coordinator, PRACE, Germany

PRACE 2020 - a vision for a sustainable European HPC-Infrastructure

10:45 - 11:00 Coffee break

11:00 – 12:10 “World-wide Perspectives 2”

Chair: **Stefan Heinzl**

11:00 **Thom Dunning**

Director, National Center for Supercomputing Applications (NCSA), University of Illinois at Urbana-Champaign (UIUC), USA

Sustained Petaflops from Blue Waters for Capacity Computing: preparing for the simulation

11:35 Vladimir Levin

Professor, Lomonosov Moscow State University, Russia

Application of CUDA technology for strength problems. Fidesys package.

12:10 – 13:50 Lunch

A tour of the National Museum will be organized during the lunch break (12:35-13:10). The optional tour is free of charge. Please sign up for the tour at the registration desk.

13:50 – 15:35

“World-wide Perspectives 3”

Chair: **Stefan Heinzl**

13:50 Xue-bin Chi

Professor, Computer Network Information Center (CNIC), Chinese Academy of Science (CAS), China

Supercomputing Applications in CAS

14:25 David Keyes

Dean, Mathematical and Computer Sciences and Engineering Division, King Abdullah University of Science and Technology (KAUST), Saudi Arabia

The Exascale: Why an international campaign

15:00 Vladimir Voevodin

Deputy Director, Research Computing Center (RCC), Lomonosov Moscow State University, Russia

Moscow State University and High Performance Computing

15:35 – 16:00 Coffee break

16:00 – 17:00

“Challenges in Computational Science 1”

Chair: **Janne Ignatius**

16:00 Hans-Thomas Janka – Astrophysics

Research Group Leader, Max Planck Institute for Astrophysics, Germany

Advancing to the Third Dimension: Supernova Models Confronting Observations

16:30 Hans De Raedt – Quantum Computing

Professor, Department of Applied Physics, University of Groningen, the Netherlands

Insights on Realistic Quantum Computing Devices from Simulation

17:00 – 18:50 PRACE User Forum

Chair: **Ana Bela Dias**

20:00 Conference Dinner at Restaurant Sipuli

THURSDAY, APRIL 14

9:00 – 11:00 “Challenges in Computational Science 2”

Chair: **Klaus Schilling**

09:00 **Hannu Kurki-Suonio** – Space Research
Lecturer, Department of Physics, University of Helsinki, Finland
PLANCK Space Mission of ESA

09:30 **Thierry Poinso** – Engineering
Research Director, Institut de Mécanique des Fluides de Toulouse (IMFT), National Center for Scientific Research (CNRS), France
What we will learn on turbulent combustion from simulations on the Exascale level

10:00 **Giovanni Aloisio** – Climate Research
Division Head, Scientific Computing and Operations (SCO), Euro-Mediterranean Centre for Climate Change Ltd (CMCC) and Professor, Engineering Faculty, University of Salento, Italy
Climate change challenges at exascale

Sandro Fiore
Scientist, Scientific Computing and Operations (SCO), Euro-Mediterranean Centre for Climate Change Ltd (CMCC), Italy
Climate change challenges at exascale

10:30 **Alejandro Muramatsu** – Materials Science
Professor, Institute for Theoretical Physics III, University of Stuttgart, Germany
Simulations Driven Design of Correlated Quantum Matter - The Case of Spin-Liquids

11:00 – 11:20 Coffee break

11:20 – 11:50 “DEISA & TeraGrid Follow-up”
Chair: **Alison Kennedy**

11:20 **Stefan Heinzl**
Director, Rechenzentrum Garching (RZG), Germany

Hermann Lederer
Deputy Director, Rechenzentrum Garching (RZG), Germany
DEISA -Resumée

11:35 **John Towns**, USA
Senior Associate Director, National Center for Supercomputing Applications (NCSA), University of Illinois at Urbana-Champaign (UIUC) and Chair, TeraGrid, USA
eXtreme Digital

11:50 – 13:05 “Extreme Computing 1”
Chair: **Alison Kennedy**

11:50 **Ilpo Vattulainen** – Biophysics
Professor, Department of Physics, Tampere University of Technology, Finland
Physics of biological systems - Trafficking of cholesterol

12:15 **Koen Hillewaert** – Engineering
CFD Research Engineer, Cenaero ASBL, Belgium
Convergence analysis of higher-order discontinuous Galerkin method for the direct numerical simulation of transitional flows

12:40 **Francesco Luigi Gervasio** – Life Sciences

Group Leader, Computational Biophysics Group, Spanish National Cancer Research Centre, Spain

Combining computer simulations and experiments to study complex biological phenomena

13:05 – 14:15 Lunch break

14:15 – 15:55 “Extreme Computing 2”

Chair: **Hermann Lederer**

14:15 **Peter Coveney** – Turbulence

Professor, Physical Chemistry and Director, Centre for Computational Science, University College London (UCL), UK

Parallel space-time approach to turbulence

14:40 **Constantia Alexandrou** – Nuclear Physics

Professor, the Cyprus Institute, University of Cyprus, Cyprus

Understanding the Strong Interactions via large scale simulations

15:05 **Sergei Ivanov** - Chemistry

Research Associate, Center for Theoretical Chemistry, University of Bochum, Germany

Path Integral QM/MM Simulations of Quantum Effects in Proteins

15:30 **Florian Janoschek** – Bio-Engineering

PhD Student, Department of Applied Physics, Eindhoven University of Technology, the Netherlands

Large Scale High Resolution Blood Flow Simulations

15:55 Concluding remarks

16:00 End of Symposium, Farewell Coffee



Figure 6. Participants at the DEISA PRACE Symposium 2011.

4.6 PRACE User Forum

The symposium also included the first PRACE User Forum. In this session PRACE representatives: **Ana Bela Dias** from the Netherlands, **Sergi Girona** from Spain, **Jean-Philippe Nominé** from France, **Florian Janetzko** from Germany, **Thomas Bönisch** from Germany, **Jussi Enkovaara** from Finland, **Richard Kenway** from the UK and **Giovanni Erbacci** from Italy presented the services the PRACE RI offers to European scientists.

The session ended with a panel discussion where HPC users expressed their opinions about the services of PRACE RI and the future of the PRACE User Forum. A group of HPC users from different scientific areas was established in order to facilitate fruitful PRACE User Forums in the future. The activities for the creation of a sustainable User Forum will be followed up by PRACE together with the group of users established during the first User Forum and other users from various scientific fields that have HPC needs for advancing their research work.

The first PRACE User Forum will be described in detail in deliverable D4.1 PRACE user forum [5].



Figure 7. Sergi Girona giving his presentation at the first PRACE User Forum.

4.7 Other dissemination material

All participants received a conference kit. In addition to the final programme, the conference kit included the list of participants, organisational guidelines, with e.g. information about the conference dinner, and details on how to access the wireless network that was available at the venue. The conference kit also included the DEISA Digest 2011 [6], and a PRACE USB-key. The material was given to the participants in a CSC bag. Maps of Helsinki were available at the venue. Participants also received name badges.

At the venue, DEISA PRACE Symposium posters were located at the entrance of the National Museum of Finland and at the lectern. DEISA and PRACE roll-ups were located behind the lectern (Figure 8).

Additional dissemination material (e.g. PRACE flyers, newsletters, brochures, call announcements, older issues of the DEISA Digest Magazine) was also available at the symposium. Other projects and events (e.g. HPC-Europa2, EGI, Nordunet, ISC'11) also contributed to this dissemination table (Figure 9 and 10).



Figure 8. PRACE Coordinator and Chairman of the PRACE Council Achim Bachem giving his presentation at the DEISA PRACE Symposium 2011, roll-ups behind.



Figure 9. Dissemination material at the DEISA PRACE Symposium 2011.

4.8 Poster exhibition

DEISA PRACE Symposium 2011 also featured a poster exhibition. This exhibition included 19 posters in total displaying different scientific results from DECI projects and projects granted access for the PRACE resources. Furthermore, general DEISA and PRACE posters were displayed. In addition e.g. the HIPOP and EESI projects were represented in the exhibition.



Figure 10. Research posters and dissemination material at the DEISA PRACE Symposium 2011.

5 Conference dinner

The conference dinner took place on Wednesday, April 13 (Figure 11). The purpose of the evening was to get to know each other better in a less formal atmosphere and to build collaborations within the HPC community. The conference evening started at 20:00 at restaurant Sipuli. The evening ended around 23:00.



Figure 11. The DEISA PRACE Symposium dinner took place at restaurant Sipuli, located next to an orthodox church in Helsinki.

6 Attendees

The DEISA PRACE Symposium 2011 attracted 209 participants from 26 countries. This is the record number of the whole DEISA PRACE Symposia series. The full list of participants is in Annex 9.1.

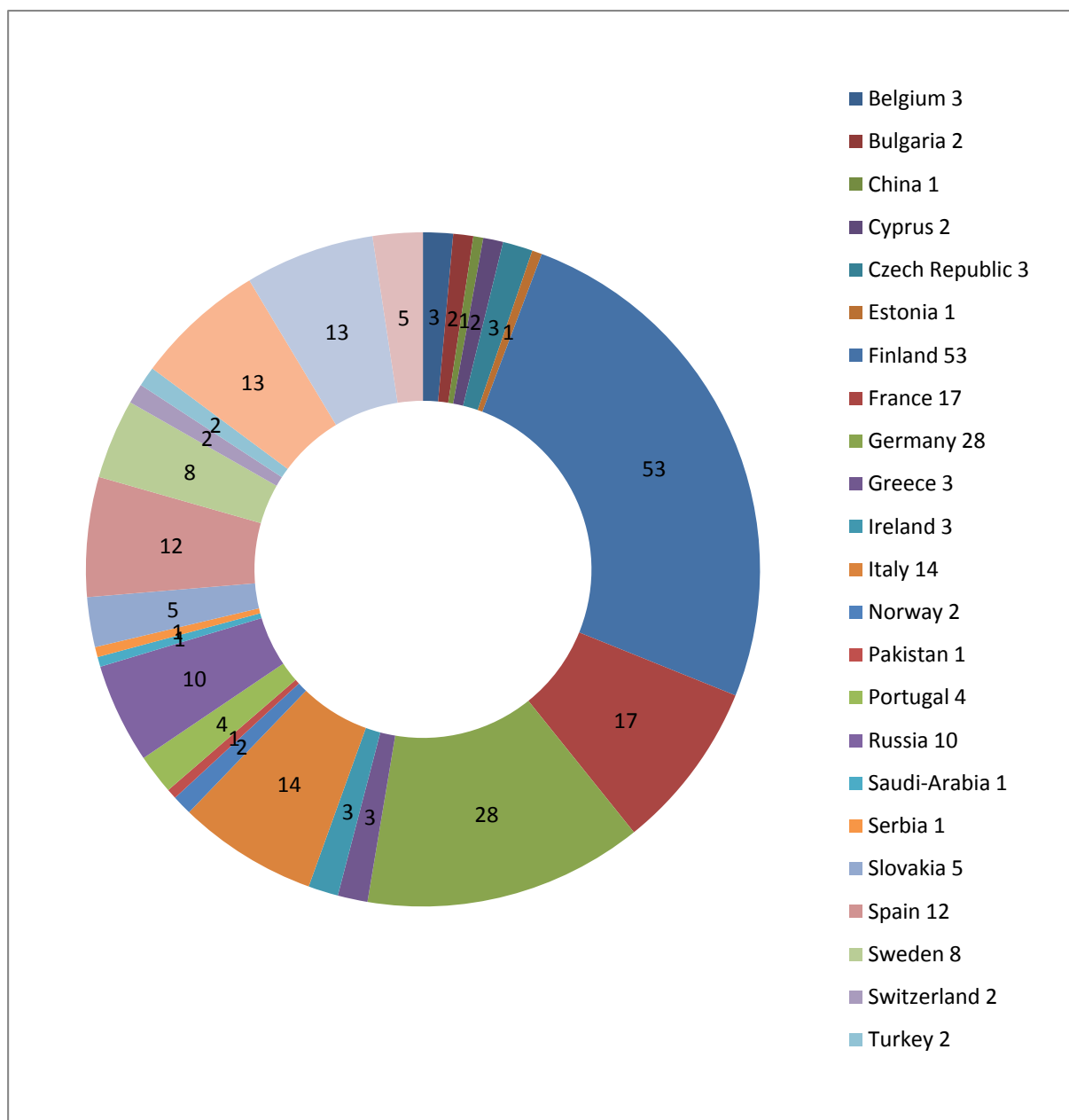


Table 1. The DEISA PRACE Symposium 2011 attracted 209 participants from 26 countries.

6.1 Relations to stakeholders

The event was successful in terms of number of participants (209) and creating relationships between PRACE and different stakeholder groups.

The number of participants was record high compared to previous symposia in the series. Not only the number of participants was high, but also the geographical representation was vast spanning a total of 26 countries.

The large number of participants included EC and government representatives, vendors, HPC technology experts and scientific users and industry partners. Attracting these groups to the symposium was one of the main goals of the event, and this was achieved.

In symposium's World-wide Perspectives sessions PRACE liaised with initiatives and institutions from USA (NCSA, TeraGrid), Russia, China and Saudi Arabia.

During the scientific sessions the following science communities were represented: astrophysics, quantum computing, space research, engineering, climate research, materials science, biophysics, life sciences, turbulence, nuclear physics, and bio-engineering. These are some of the main user groups of the PRACE RI. This diverse set of disciplines also made the first PRACE user forum very fruitful.

7 Post-event activities

All participants were emailed after the event with information about the presentations available online. All presentations from the symposium are available at the DEISA and PRACE websites:

<http://www.prace-ri.eu/DEISA-PRACE-Symposium-2011>

<http://www.prace-project.eu/documents>

http://www.deisa.eu/news_press/symposium/Helsinki2011

A press release about the results and presentations available was published and disseminated after the event. Feature articles with pictures were also published in DEISA and PRACE newsletters.

A link to an evaluation form was also sent to the participants. The survey was conducted with an online survey tool developed by IPB.

7.1 Feedback

Out of 209 participants, 25 people (12%) filled out the online evaluation form after the event. The amount of completed answers was not as high as the organising people would have hoped. In the following events the organisers have to encourage people to answer to the evaluation forms with a higher frequency. Below are the questions and percentages of answers.

What is your overall impression of the event?

Very productive 44.00%

Productive 48.00%

Not productive 4.00%

No answer 4.00%

Not completed or Not displayed 0.00%

Relevance, agenda and discussions:**Relevance of topics discussed**

Excellent 24.00%

Good 40.00%

Average 12.00%

Below average 0.00%

Poor 0.00%

No answer 4.00%

Not completed or Not displayed 20.00%

Agenda (adhered to, allocation of time per topic)

Excellent 32.00%

Good 32.00%

Average 8.00%

Below average 0.00%

Poor 4.00%

No answer 4.00%

Not completed or Not displayed 20.00%

Discussions

Excellent 20.00%

Good 40.00%

Average 12.00%

Below average 4.00%

Poor 0.00%

No answer 4.00%

Not completed or Not displayed 20.00%

Speakers

Excellent 24.00%

Good 36.00%

Average 12.00%

Below average 0.00%

Poor 4.00%

No answer 4.00%

Not completed or Not displayed 20.00%

PRACE User Forum

Excellent 8.00%

Good 40.00%

Average 24.00%

Below average 0.00%

Poor 4.00%

No answer 4.00%

Not completed or Not displayed 20.00%

Please rate the following elements where applicable:

Preparation and distribution of background documents

Excellent 32.00%

Good 28.00%

Average 12.00%

Below average 0.00%

Poor 4.00%

No answer 0.00%

Not completed or Not displayed 24.00%

Support from organising staff

Excellent 52.00%

Good 20.00%

Average 4.00%

Below average 0.00%

Poor 0.00%

No answer 0.00%

Not completed or Not displayed 24.00%

Conference facilities

Excellent 24.00%

Good 44.00%

Average 8.00%

Below average 0.00%

Poor 0.00%

No answer 0.00%

Not completed or Not displayed 24.00%

Hotel

Excellent 36.00%

Good 28.00%

Average 12.00%

Below average 0.00%

Poor 0.00%

No answer 0.00%

Not completed or Not displayed 24.00%

Dinner

Excellent 44.00%

Good 20.00%

Average 12.00%

Below average 0.00%

Poor 0.00%

No answer 0.00%

Not completed or Not displayed 24.00%

How did you hear about the symposium?

invitation by e-mail 40.00%
 from colleagues 36.00%
 internet 16.00%
 announcement in press 0.00%
 at conference/event 8.00%

Do you plan to attend the follow up symposium in 2012?

Yes 48.00%
 No 28.00%
 No answer 0.00%
 Not completed or Not displayed 24.00%

What subjects would you like to be addressed?

- Scientific highlights from tier-0 and tier-1 calls
- Discussion on policy and user / provider considerations - interaction with European projects requiring HPC - scientific projects conducted within the framework (maybe with a better focus on the technical, transversal aspects of the computation (efficient parallelisation, serial efficiency) - overview of facilities, calls and trainings
- Concentrate on both management of resources of PRACE and DEISA, reduce the specific scientific talks. Recommend speakers to focus their attention on the purposes of such kind of meeting.
- CFD, global climate change
- Integration of DEISA into PRACE Research activities spanning Tier 0 and Tier 1 resources Interactions/interoperability with other infrastructures Data management and data sharing capabilities to be supported at PRACE Tier 0 and Tier 1 sites Usage modalities of Tier 0 resources beyond traditional HPC login access
- Innovative uses of HPC in industry
- Economics of supercomputing. Effectiveness of public investment into supercomputing programs with regard to societal changes these investments provide. (I agree it's a complex and controversial topic)

Please leave any comments - positive or negative - about the DEISA PRACE Symposium 2011.

- Excellent work!
- This symposium was very well organised. Thank you for this.
- Good symposium
- Not too positive. Organizers should pay much more attention on directing the speeches and alert speakers.
- Very well organized event. Possibilities to meet people one is interested.
- This is an outstanding symposium series.
- Overall, excellent! Thank you all very much!
- While the Symposium organization was unquestionably excellent, one point which this survey can not capture, but which I wanted to mention, was how welcome I felt in Finland and how grateful I am to all our Finnish hosts for this. Thank you!
-

8 Conclusions

The last DEISA PRACE Symposium 2011 was the last DEISA event, since the DEISA project ended in April 2011. The services operated by DEISA (Tier-1 services) will become part of the PRACE Research Infrastructure. PRACE continues the engagement with different science fields at different science symposia, next one being most likely in conjunction with ISC'12.

Seven years of successful DEISA and DEISA PRACE Symposia were concluded at the DEISA PRACE Symposium 2011 with a record high attendance. With over 200 participants from 26 countries the symposium reached its aim to create relationships between PRACE, DEISA and their various stakeholder groups – most importantly with different scientific domains.

The two-day programme including 25 speakers and 7 chairs from around the world was an achievement of itself.

The feedback from the symposium was overall very positive. 92 per cent of the respondents regarded the symposium very productive (44%) or productive (48%). Relevance, agenda and discussions also received good ratings, and the arrangements for the symposium were highly appreciated.

9 Annex

9.1 List of participants

DEISA PRACE Symposium 2011
April 13–14, 2011
National Museum of Finland
Helsinki, Finland

Participants

Country	Last name	First name	Organization
Belgium	Fabianek	Bernhard	European Commission
Belgium	Hillewaert	Koen	Cenaero
Belgium	Stancic	Zoran	European Commission
Bulgaria	Georgiev	Krassimir	IICT/Bulgarian Academy of Sciences
Bulgaria	Marginov	Svetozar	IICT/Bulgarian Academy of Sciences
Bulgaria	Markov	Stoyan	Bulgarian National Centre for Supercomputing Applications
Bulgaria	Markova	Sonia	Technotronics Bulgaria
China	Chi	Xue-bin	CNIC/CAS
Cyprus	Alexandrou	Constantia	University of Cyprus
Cyprus	Schilling	Klaus	CaSToRC/The Cyprus Institute
Czech Republic	Jakl	Ondrej	VSb - Technical University Ostrava
Czech Republic	Kesarkar	Sagar	Institute of Organic Chemistry and Biochemistry
Czech Republic	Stanek	Filip	VSb - Technical University of Ostrava
Estonia	Anton	Lauri	HPC Center/University of Tartu
Finland	Achim	Cristian Vasile	Aalto University
Finland	Andler	Marjut	CSC - IT Center for Science Ltd.

Finland	Antinoja	Antti	Fennosys Oy
Finland	Bouianov	Marina	CSC - IT Center for Science Ltd.
Finland	Bunker	Alex	University of Helsinki
Finland	Enkovaara	Jussi	CSC - IT Center for Science Ltd.
Finland	Eloranta	Kari	Aalto University
Finland	Estola	Kari-Pekka	VTT Memsfab
Finland	Forsström	Pirjo-Leena	CSC - IT Center for Science Ltd.
Finland	Elmgren	Oskari	Elmer Technology Development Oy
Finland	Fagerholm	Juha	CSC - IT Center for Science Ltd.
Finland	Heikkilä	Oskari	Aalto University
Finland	Hynninen	Jussi	CSC - IT Center for Science Ltd.
Finland	Ignatius	Janne	CSC - IT Center for Science Ltd.
Finland	Jakobsson	Anni	CSC - IT Center for Science Ltd.
Finland	Kajala	Jussi	Aalto University
Finland	Karlsson	Mikael	CSC - IT Center for Science Ltd.
Finland	Kivisaari	Pyry	Aalto University
Finland	Koski	Kimmo	CSC - IT Center for Science Ltd.
Finland	Koskinen	Timo	IBM Finland
Finland	Kurki-Suonio	Hannu	University of Helsinki
Finland	Käpylä	Petri	University of Helsinki
Finland	Laaksonen	Leif	CSC - IT Center for Science Ltd.
Finland	Laitinen	Jarno	CSC - IT Center for Science Ltd.
Finland	Laurson	Lasse	Aalto University
Finland	Lecarpentier	Damien	CSC - IT Center for Science Ltd.
Finland	Lehtinen	Jussi	EMC
Finland	Lehto	Olli-Pekka	CSC - IT Center for Science Ltd.
Finland	Lehtovuori	Pekka	CSC - IT Center for Science Ltd.
Finland	Linna	Riku	Aalto University
Finland	Louhivuori	Martti	CSC - IT Center for Science Ltd.
Finland	Magarkar	Aniket	University of Helsinki
Finland	Manninen	Pekka	CSC - IT Center for Science Ltd.
Finland	Mantere	Maarit	University of Helsinki
Finland	Metsä	Pekko	University of Helsinki
Finland	Miettinen	Tatu	IBM
Finland	Mälkki	Anssi	Academy of Finland
Finland	Nikunen	Petri	CSC - IT Center for Science Ltd.
Finland	Pesonen	Paula	CSC - IT Center for Science Ltd.
Finland	Pursula	Antti	CSC - IT Center for Science Ltd.
Finland	Rummukainen	Kari	University of Helsinki
Finland	Salonen	Jani	Aalto University
Finland	Sandberg	Thomas	Åbo Akademi University
Finland	Serimaa	Olli	CSC - IT Center for Science Ltd.
Finland	Still	Dan	CSC - IT Center for Science Ltd.
Finland	Timonen	Tiina	CSC - IT Center for Science Ltd.
Finland	Turunen	Ari	CSC - IT Center for Science Ltd.
Finland	Vattulainen	Ilpo	Tampere University of Technology
Finland	Vestala	Leena	Ministry of Education and Culture

Finland	Virtanen	Joni	CSC - IT Center for Science Ltd.
Finland	von Alfthan	Sebastian	Finnish Meteorological Institute
Finland	Värttö	Saara	CSC - IT Center for Science Ltd.
France	Alessandrini	Victor	IDRIS-CNRS
France	Alimi	Jean-Michel	Laboratoire Univers et Théories -CNRS
France	Audiffren	Nicole	CINES
France	Bouizi	Othman	IDRIS-CNRS
France	Collinet	Philippe	IDRIS-CNRS
France	Couaillier	Vincent	ONERA
France	Crouzet	Laurent	CEA
France	Dupays	Isabelle	IDRIS-CNRS
France	Gil	Gerard	CINES
France	Girou	Denis	IDRIS-CNRS
France	Le Gouez	Jean-Marie	ONERA
France	Mahdi	Virginie	GENCI
France	Marty	Philippe	IDRIS-CNRS
France	Nomine	Jean-Philippe	CEA
France	Poinsot	Thierry	Institut de Mecanique des Fluides de Toulouse -CNRS
France	Ribaillier	Vincent	IDRIS-CNRS
France	Sawley	Marie-Christine	Intel
Germany	Bachem	Achim	Forschungszentrum Jülich GmbH
Germany	Berberich	Florian	Forschungszentrum Jülich GmbH
Germany	Bönisch	Thomas	HLRS/University of Stuttgart
Germany	Docter	Jutta	Forschungszentrum Jülich GmbH
Germany	Eickermann	Thomas	Forschungszentrum Jülich GmbH
Germany	Heinzel	Stefan	RZG/MPG
Germany	Helmut	Heller	Leibniz Supercomputing Centre (LRZ)
Germany	Heydemüller	Jörg	MEGWARE Computer GmbH
Germany	Ivanov	Sergei	Ruhr-Universität Bochum
Germany	Janetzko	Florian	Forschungszentrum Jülich GmbH
Germany	Janka	Hans-Thomas	Max Planck Institute for Astrophysics
Germany	Keller	Rainer	HLRS/University of Stuttgart
Germany	Koehler	Axel	NVIDIA Ltd
Germany	Kraemer	Stefan	NVIDIA Ltd
Germany	Lauber	Gilbert R.	T-Platforms
Germany	Lederer	Hermann	RZG/MPG
Germany	Meier	Stefanie	Forschungszentrum Jülich GmbH
Germany	Meurer	Karl-Heinz	IBM Deutschland GmbH
Germany	Muramatsu	Alejandro	University of Stuttgart
Germany	Niederberger	Ralph	Forschungszentrum Jülich GmbH
Germany	Rampp	Markus	RZG/MPG
Germany	Reetz	Johannes	RZG/MPG
Germany	Roosen	Martin	IBM Deutschland GmbH
Germany	Saverchenko	Ilya	Leibniz Supercomputing Centre (LRZ)
Germany	Schmidt	Andreas	RZG/MPG
Germany	Schott	Andreas	RZG/MPG
Germany	Weber	Tanja	Forschungszentrum Jülich GmbH

Germany	Weidl	Ingeborg	RZG/MPG
Greece	Dellis	Dimitris	GRNET
Greece	Kostas	Glinos	European Commission
Greece	Liabotis	Ioannis	GRNET
Ireland	Brown	Michael	ICHEC
Ireland	Mc Donnell	Nix	ICHEC
Ireland	Wong	Simon	ICHEC
Italy	Bassini	Sanzio	CINECA
Italy	Bernardi	Sergio	CINECA
Italy	Capuzzo Dolcetta	Roberto	University of Rome
Italy	Emerson	Andrew	CINECA
Italy	Erbacci	Giovanni	CINECA
Italy	Fiameni	Giuseppe	CINECA
Italy	Fiore	Sandro	CMCC
Italy	Gandhi	Sonu	Campus IFOM-IEO
Italy	Gheller	Claudio	CINECA
Italy	Morgotti	Marcello	CINECA
Italy	Romani	Lamberto	Ministero dell'economia e delle finanze
Italy	Taneja	Sonia	The National Institute of Nuclear Physics
Italy	Tripahti	Prem Prakash	European Institute of Oncology
Italy	Vanni	Andreas	CINECA
Norway	Gisler	Galen	University of Oslo
Norway	Johannsen	Klaus	Uni Research As
Pakistan	Kazmi	Syed Ali Raza	Institute of Space Technology (IST)
Portugal	Abreu	Paulo	Instituto Superior Técnico (IST)
Portugal	Alberto	Pedro	University of Coimbra
Portugal	Fiolhais	Manuel	University of Coimbra
Portugal	Simões	Carlos	FCTUC
Russia	Biktimirov	Marat	National Association of Research and Educational e-Infrastructures "e-ARENA"
Russia	Churakova	Elena	T-Platforms
Russia	Glebskiy	Vladimir	Russian Mission to the EU
Russia	Kozhevnikov	Mikhail	T-Platforms
Russia	Levin	Vladimir	Lomonosov Moscow State University
Russia	Opanasenko	Vsevolod	T-Platforms
Russia	Shabanov	Boris	JSCC RAS
Russia	Solnushkin	Konstantin	Saint-Petersburg State Polytechnical University
Russia	Telegin	Pavel	JSCC RAS
Russia	Voevodin	Vladimir	RCC/Lomonosov Moscow State University
Saudi-Arabia	Keyes	David	King Abdullah University of Science and Technology
Serbia	Belic	Aleksandar	Institute of Physics
Slovakia	Demovič	Lukáš	Computing center of the Slovak Academy of Sciences
Slovakia	Hermann	Peter	Slovak University of Technology in Bratislava
Slovakia	Lacko	Tomas	Computing center of the Slovak Academy of Sciences
Slovakia	Noga	Jozef	Computing Centre of the Slovak Academy of Sciences
Slovakia	Štujber	Viktor	Slovak University of Technology in Bratislava
Spain	Bartolome Rodriguez	Javier	Barcelona Supercomputing Center (BSC)

Spain	Fenoy	Carles	Barcelona Supercomputing Center (BSC)
Spain	Gervasio	Francesco Luigi	Spanish National Cancer Research Center (CNIO)
Spain	Girona	Sergi	Barcelona Supercomputing Center (BSC)
Spain	Ostasz	Marcin	Barcelona Supercomputing Center (BSC)
Spain	Pegenaute	Xavier	Barcelona Supercomputing Center (BSC)
Spain	Rodriguez	Jorge	Barcelona Supercomputing Center (BSC)
Spain	Sanchez	Edilberto	Asociacion EURATOM-CIEMAT para Fusion
Spain	Simarro	Christian	Barcelona Supercomputing Center (BSC)
Spain	Vazquez	Mariano	Barcelona Supercomputing Center (BSC)
Spain	Vicente	David	Barcelona Supercomputing Center (BSC)
Spain	Yepes	Gustavo	Universidad Autonoma de Madrid
Sweden	Axner	Lilit	PDC/KTH Royal Institute of Technology
Sweden	Basu	Chandan	NSC/Linköping University
Sweden	Chevalier	Mattias	KTH Royal Institute of Technology
Sweden	Hagersten	Erik	Rogue Wave Software
Sweden	Netzer	Gilbert	KTH Royal Institute of Technology
Sweden	Schlatter	Philipp	KTH Royal Institute of Technology
Sweden	Schliephake	Michael	PDC/KTH Royal Institute of Technology
Sweden	Weibust	Erling	IBM
Switzerland	Giuffreda	Maria-Grazia	Swiss National Computer Centre (CSCS)
Switzerland	Seitsonen	Ari Paavo	University of Zurich
Turkey	Aykanat	Cevdet	Bilkent University
Turkey	Ozturan	Can	Bogazici University
the Netherlands	Aerts	Patrick	Netherlands National Computing Facilities foundation
the Netherlands	Berg	Axel	SARA
the Netherlands	De Raedt	Hans	University of Groningen
the Netherlands	Dias	Ana Bela	Netherlands National Computing Facilities foundation
the Netherlands	Donners	John	SARA
the Netherlands	Janoschek	Florian	Eindhoven University of Technology
the Netherlands	Lioen	Walter	SARA
the Netherlands	Llurba	Rossend	Netherlands National Computing Facilities foundation
the Netherlands	Michielse	Peter	Netherlands National Computing Facilities foundation
the Netherlands	Osseyran	Anwar	SARA
the Netherlands	Rijks	Wim	SARA
the Netherlands	van der Steen	Aad	Netherlands National Computing Facilities foundation
the Netherlands	Wolfrat	Jules	SARA
UK	Bancroft	John	Science & Technology Facilities Council
UK	Coveney	Peter	University College London
UK	Dubitzky	Werner	University of Ulster
UK	Groen	Derek	CCS, University College London
UK	Iliev	Ilian	University of Sussex
UK	Johnson	Chris	EPCC, University of Edinburgh
UK	Kennedy	Alison	EPCC, University of Edinburgh
UK	Kenway	Richard	University of Edinburgh
UK	Mezzanotte	Cristian	ECMWF
UK	Olchowik	Maciej	EPCC, University of Edinburgh
UK	Pringle	Gavin	EPCC, University of Edinburgh

D3.1.3

First Scientific Conference

UK	Simpson	Alan	EPCC, University of Edinburgh
UK	Weiland	Michele	EPCC, University of Edinburgh
USA	Dunning	Thom	NCSA, University of Illinois at Urbana-Champaign
USA	Johnson	Gary	Computational Science Solutions
USA	Lathrop	Scott	University of Chicago
USA	Orlotti	Edmondo	NVIDIA Ltd
USA	Towns	John	NCSA, University of Illinois at Urbana-Champaign