***Technische Universität Berlin***
***Faculty Electrical Engineering***
***and Computer Science***

Bid for hosting the

# 21st European Conference on Object Oriented Programming ECOOP 2007

at the Technische Universität Berlin
July 30 – August 03, 2007

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# Berlin

Germany’s capital Berlin is located in the heart of Europe and – following the EU’s enlargement in 2004, at the centre of the European Union. With some 3,400,000 inhabitants and covering an area of 889 square kilometres, Berlin is Germany’s largest city. Situated at the geographic centre of the Brandenburg region, the city is built on flatlands on the banks of the Havel and Spree rivers and is criss-crossed by numerous canals.

Dating back less than 800 years, Berlin is young compared with other European cities. But its history is unique. Following German reunification in 1990, Berlin became the seat of the Federal Government, which held its first plenary session in the refurbished Reichstag building on 19 April 1999. The Reichstag with its new glass dome has now become an attraction for both local residents and tourists from around the globe. Since reunification, a great deal has changed in Berlin, and Berlin continues to change...

## Culture in Berlin

Culture is a key sector in Berlin and a mainstay of the city's economy. Berlin has a great deal to offer in this area: three opera houses, a large number of theatres and orchestras as well as numerous museums. The Museums Island is one of Berlin's best-known World Cultural Heritage Sites. And in the summer months, what better way to spend a relaxing evening than in one of the many beach bars on the banks of the River Spree or in one of the city's numerous open-air theatres and cinemas.

## Science in Berlin

The structural changes Berlin is undergoing, its modernization and reconstruction rely on the creativity and innovation of science and research. Information and communication technologies, medical technology, biotechnology, optical technologies and transportation technology – all benefits from the city’s creative and innovative potential.

Berlin is attracting an ever increasing number of scientists and has a thriving research sector.  The Berlin-Brandenburg region is home to a numer of academic and industrial institutions engaged in computer science research.

Berlin has four universities, eight colleges, four academies of art and music, a number of private colleges and more than 250 research institutions, including the Berlin-Brandenburg Academy of Science, six Max Planck and seven Fraunhofer Institutes. The National Library (Staatsbibliothek), Germany’s largest all-round library, occupies two buildings in the city. With more than 10 million volumes and a wide-ranging international service, the library’s prestige extends beyond Germany's borders.

Berlin’s universities with their 139,000 students are renowned well beyond the city’s borders.

## Technische Universität Berlin







The Technische Universität Berlin can look back on a long and distinguished tradition of teaching and research. Founded in 1879 as the Building Academy and amalgamated in 1887 with the Vocational Academy to form the Royal Technical College of Berlin, it was re-established in 1946 under the name Technische Universität Berlin or TU Berlin.The main focus of the TU Berlin is on the natural and engineering sciences but it also offers arts degrees. Most of the university's buildings are situated in the city centre, around the Straße des 17. Juni in the city's Charlottenburg district. In 2001, there were 30,000 students enrolled at the TU Berlin, more than 36% of them women and 20% foreigners. The students are taught by some 400 professors and an academic staff of around 1,500, making it the largest technical university in Germany.

### Our Faculty

The Faculty of Electrical Engineering and Computer Science has 41 professors and 265 scientific staff. Associated with the TU Berlin are six Fraunhofer Institutes, the Ferdinand-Braun-Institut für Höchst-frequenztechnik (FBH), the DaimlerChrysler Automotive Information Technology Institute (DCAITI) and the Deutsche Telecom Labora-tories (T-Labs).

### Conference Venue

The conference will be held on the TU Berlin's campus, which is located near the Zoo rail station and the well-known thoroughfare, the Kurfürstendamm. A number of other university buildings are situated near the main site in the districts of Tiergarten and Charlottenburg. The main conference events will be held in the Main Building on the Straße des 17. Juni.

The Main Building and the Mathematics Building just across the street have lecture rooms that can accommodate well over 700 people, each. There are also up to 30 smaller rooms suitable for workshops or tutorials. The Main Building also boasts a large glass-roofed patio, the so-called Lichthof, which is an ideal location for exhibitions, coffee breaks and receptions in a casual and communicative atmosphere. Only a short walk from the Main Building is the university refectory (Mensa), where the conference lunches will be served.

Within walking distance there are several hotels in different price categories. We will negotiate special rates for either the Excelsior or Dorint hotel as the main conference hotel.

Examples:

Hotel Excelsior – s/95.- €, d/115.- €,
Dorint Novotel – s/129.- € , d/144.-€

Hotel Heidelberg – s/69.- € , d/85.- €
Hotel Gates – s/90.- /100.- €, d/110.-/120.- €
A&O HOSTEL – from 16.- € bed/night

## Transport Connections

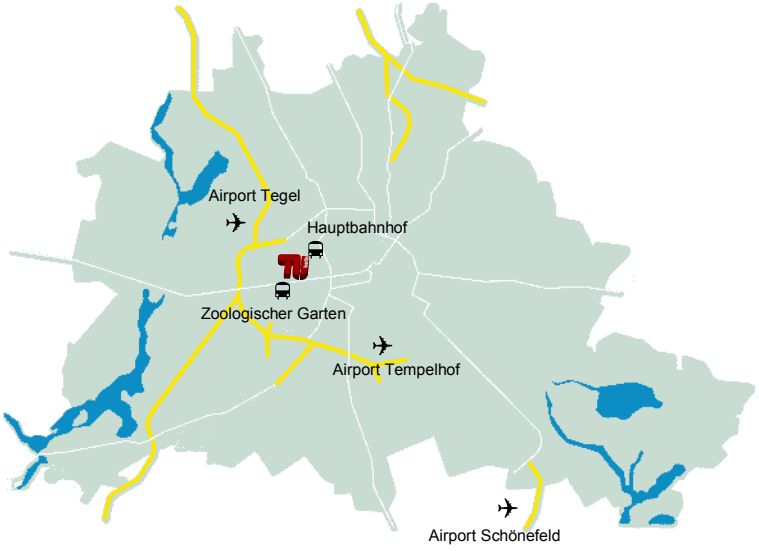
Berlin is served by numerous national and international airlines, making it easy to reach by air. The city's three airports are all very well connected to the local public transport system.

The larger airports are Tegel and Schönefeld, the former continuing to serve as the gateway to western Europe, while the latter handles most of the flights to eastern Europe and Asia. Tegel is conveniently located in the north-west of Berlin, some 8 km from the city centre, a mere 15-minute bus/train ride from the western city centre. Schönefeld is situated in the south-east of Berlin, some 18 km from the city centre. The airport is served by the metropolitan train (S-Bahn) as well as several AirportExpress trains which run every half an hour from/to the stations Zoologischer Garten, Friedrichstraße, Alexanderplatz and Ostbahnhof.

Berlin is an important rail hub with stations like the Bahnhof Zoo, Ostbahnhof and – from 2006 – the new Hauptbahnhof (Main Station). The Intercity (IC) and high-speed Intercity Express (ICE) trains run by the Deutsche Bahn AG offer Berlin's fastest rail connections to the trans-European transport network.

Public transport in Berlin is well developed. There are nine underground lines, 15 metropolitan train lines and some 150 bus lines offering fast connections to and from all points of the city and its outskirts. There are also 28 tram lines operating in the eastern part of the city. Many buses and some underground and metropolitan trains offer an all-night service. Berlin's world-famous double-decker buses cover a network with a total length of 1,917 kilometres.

The overground metropolitan trains pass many interesting sights. Passengers travelling on any line between the stations Zoologischer Garten and Alexanderplatz will pass the Tiergarten park with the *Siegessäule* (Victory Column), the *Reichstag* (Parliament) and the *Bundeskanzleramt* (Federal Chancellor's Office) and ride between the buildings of Berlin's historic Museums Island. Trains on the *Ringbahn* (Circle Line) will give you a round trip of the city and enable you to see a lot of interesting sights.



## Social programme

The social programme is scheduled to include a workshop and tutorial reception on Monday in the Main Building's Lichthof, a welcoming reception on Wednesday in the Bärensaal of the Old Town Hall and a Conference Dinner, combined with a boat trip through the historical city centre or a visit to Berlin's Museum of Technology.

All conference participants will be provided with a city ticket enabling them to use the public transport system free of charge and visit museums or exhibitions at reduced prices. For accompanying persons, an additional programme can be organized, e.g. city tours of Berlin or Potsdam or tours of the surrounding area.

The social programme may be modified depending on the level of sponsorship and participation.

## References

In former years group members have organized some conferences and workshops or were involved in the organization:

ICSE 1996 – 18th International Conference on Software Engineering
*Local organization*

SI 2000 – Systems Implementation 2000
*Cooperation in local organization*

ZUM'98 – 11th International Conference of Z Users
*Cooperation in local organization*

ETAPS 2000 – European Joint Conferences on Theory and Practice of Software
*Finance chair, publicity handling, cooperation in local organization*

ECAI 2000 – The 14th Biennale European Conference on Artificial Intelligence
*Cooperation in local organization*

Informatik 2000 – 30. Jahrestagung der Gesellschaft für Informatik
*Conference chair, local organization*

CD 2002 – First International IFIP/ACM Working Conference on Component Deployment
*Conference co-chair, local organization*

EIWAS 2004 – European Interactive Workshop on Aspects in Software
*Organization*

ASIM 2005 – Workshop on Simulations- und Testmethoden für Software in Fahrzeugsystemen
*Local organization*

# Provisional Conference Committee

The following people have agreed to contribute as a chair for ECOOP 2007. The concrete assignment to specific positions has not yet been decided and will be finalized immediatly after acceptance of the bid. Therefore the following assignment should for most cases be considered as provisional.

## **Peter Fritzson,** *Conference Co-Chair*

Professor and Director of the Programming Environment Laboratory, Linköping University, Sweden.

Professor Peter Fritzson received his PhD at Linköping University in 1984, at which time his research was focussed on programming environments and compiler technology. Today, he is best known for his research and publications around the Modelica language for object oriented modeling and simulation. Peter Fritzson currently holds the positions of Secretary of the Federation of European Simulation Societies; President of MathCore Engineering AB; chairman of the Scandinavian Simulation Society and vice chairman of the Modelica Association, an organisation he helped to establish. Professor Fritzson has published ten books and over one hundred scientific papers.

## **Dr.-Ing. Stefan Jähnichen,** *Conference Co-Chair*

Professor for Software Engineering, TU Berlin, and Head of Fraunhofer Institute First

Professor Stefan Jähnichen, studied electrical engineering and received his PhD (Dr.-Ing.) in computer science from the Technical University Berlin in 1984. Since 1998 he is managing and scientific director of the Fraunhofer Institute for Computer Architecture and Software Technology FIRST (former GMD FIRST). As a full professor he is furthermore leading the research group on software engineering at the Department of Electrical Engineering and Computer Science of the TU Berlin. Stefan Jähnichen has a solid experience in software engineering especially in programming languages and compilers which he contributes to many national and international committees such as the IFIP Working Group 2.4 in System Programming Languages, the German Techonology Cooperation with Latin-America or the Scientific Advisory Board (Fachkolleg) for Informatics of the German Research Foundation (DFG).

## **Dr. Peter Pepper,** *Organizing Chair*

Professor for Compiler Construction and Programming Languages, TU Berlin

Professor Peter Pepper studied mathematics, did his PhD (Dr.rer.nat.) and his "Habilitation" at the Technical University of Munich. He has been Professor at the TU Berlin since 1985, heading the research group Compiler Construction and Programming Languages. His own research on program transformation and algebraic specification as part of the Munich CIP project formed the basis for the group's current research in the following areas: Programming specification and development, functional programming, compilation techniques, communication-based systems, safety-critical software, massively parallel programms and programming environments.

Professor Pepper hosted the 53rd annual meeting of the IFIP WG2.1 in 1999 and he was organization chair of the ETAPS 2000.

## **Dr. Uwe Aßmann**, *Workshop Co-Chair*

Professor for Software Engineering, TU Dresden

Professor Uwe Aßmann studied Computer Science and did his PhD (Dr.rer.nat.) at the Unviersity of Karlsruhe. He worked as scientific staff at the University of Karlsruhe and the associated GMD research institute. He then became a Professor for Software Engineering at the Linkopings Universitet. In 2004 he has relocated to the Technical University of Dresden.

Professor Aßmann has been on many committees for scientific conferences, notably CC 2001, 2002, 2003, CD 2002, 2004, SCOPES 2003, 2004 and ECOOP 2004. He was co-organizing SC 2002, 2003 and 2004.

## **Dr.-Ing. Stephan Herrmann**, *Workshop Co-Chair*

Assistant Professor, Software Engineering Group, TU Berlin

Dr.-Ing. Stephan Herrmann studied computer science at the TU Berlin. He received his PhD (Dr.-Ing.) from the TU Berlin. Since 2002 he is assistent professor at the TU Berlin and leader of the TOPPrax project - Applying aspect-oriented programming in commercial software development. Besides his membership in the PCs for several conferences and workshops, he was co-chair of CD 2002 and organiser of the European Interactive Workshop on Aspects in Software (EIWAS'04). This year he is OC-member of the ECOOP'05 workshop Views, Aspects and Roles — VAR '05

**Dr. Klaus Grimm,** *Tutorial Co-Chair*
Director Software Technology (RIC/S), DaimlerChrysler AG

Dr. Klaus Grimm studied mathematics in Braunschweig. After three years as teaching assistant at TU Braunschweig he worked in a variety of positions as a scientist at the Research Institute of AEG which was taken over by Daimler-Benz AG subsequently. 1995 he received the PhD in computer science from the TU Berlin. Since 1998 Dr. Grimm is director and head of the Software Technology Research Lab as well as the Research Lab in Bangalore (India) of DaimlerChrysler AG. His current interests include management of software technology research, software engineering, requirements engineering, formal methods and software reliability.

**Dr.-Ing. Thomas Santen,** *Tutorial Co-Chair*
Assistant Professor, Software Engineering Group, TU Berlin

Dr. Thomas Santen studied computer science in Erlangen-Nürnberg and Karlsruhe from 1984 to 1991. In 1999, he received a PhD "with distinction" with a thesis on a formal model and proof methods for behavioral subtyping in object-oriented specification languages. Since then, Dr. Santen is assistant professor at TU Berlin. He has been acting professor for software engineering at TU Dresden in 2003 / 2004 and at the University of Münster in 2004.

Dr. Santen serves as reviewer and program committee member for several international journals and conferences. He has co-chaired and organized IFM 2000.

**Dr. Sabine Glesner,** *Demo Co-Chair*
Assistant Professor in the Aktionsplan Informatik (Emmy Noether-Programm) der DFG, University of Karlsruhe

Dr. Sabine Glesner graduated in computer science from the University of California, Berkeley, in 1994. She then finished her studies in computer science at the Technical University of Darmstadt "with distinction" in 1996. During this time, Sabine Glesner was a member of the Studienstiftung des deutschen Volkes, the German National Scholarship Foundation. From 1996-1999, Sabine Glesner obtained her PhD in computer science "with distinction" at the University of Karlsruhe. She shared the Förderpreis des Forschungszentrums Informatik for the best PhD thesis in the computer science department in Karlsruhe in 1999. From 1999-2005, Sabine Glesner worked on her habilitation which she finished in May 2005. Sabine Glesner has been offered a professorship at the TU Berlin.

Sabine Glesner works as referee and program committee member for international conferences and journals, lately as program committee member for the workshops "Compiler Optimization meets Compiler Verification (COCV)" and "Formal Foundations of Embedded Software and Component-Based Software Architectures (FESCA)" as well as technical program committee member for the DATE'06 Conference.

**Dr. Arnd Poetzsch-Heffter,** *Demo Co-Chair*
Professor of Software Engineering, TU Kaiserslautern

Professor Arnd Poetzsch-Heffter was PC member of ECOOP 2002 and of several other workshops and conferences. In particular since 1999 he is steering and programme committee member of the ECOOP Workshop on Formal Techniques for Java-like Programs, since 2002 programme committee member of the ETAPS Workshop on Software Composition.

**Peter Möckel,** *Exhibition Co-Chair*
Managing Director of Telekom Laboratories

Before becoming Managing Director of Telekom Laboratories, Peter Möckel worked for the Deutsche Telekom in a variety of positions from 1999 onwards, most recently as Head of Strategic Development. From 1996 to 1999, he worked, initially as a consultant and later as an Associate, for Booz Allen Hamilton, a strategy and technology consultancy. Peter Möckel studied computer science at Cambridge University and RWTH Aachen University of Technology.

### Dr. sc. nat. Christoph Meinel, *Exhibition Co-Chair*
Scientific Director of the Hasso-Plattner-Institut (HPI) and Professor for Computer Science at the University of Potsdam

Dr. Christoph Meinel studied from 1974-79 mathematics and computer sciences at the Humboldt University in Berlin. He received his PhD degree in 1981. From 1981-1991 he worked at the Humboldt University and at the Institute of Mathematics of the Academy of Sciences in Berlin. He was a full professor for computer science at the University of Trier from 1992 to 2004. In 1998, he founded the Institut für Telematik (TI) e.V. in Trier and was the director of this institute from 1998 to 2002. Besides his work at HPI in Potsdam he is visiting professor at LIASIT (Luxembourg International Advanced Studies in Information Technology) at the University of Luxembourg as well as at the School of Computer Sciences of the Beijing University of Technology, China.

### Dr. Bernd Mahr, *Panel Chair*
Professor for Formal Models, Logic and Programming, TU Berlin

Professor Bernd Mahr studied philosophy, German philology, mathematics, physics and computer science in Tübingen, Kiel and Berlin. He completed his studies at the TU Berlin, obtaining a degree in mathematics, and went on to do his PhD (Dr. rer.nat.) and "Habilitation" there. He was a guest researcher at Technion Haifa and Assistant Professor at the PennState University. Since 1986, he has been Professor at the TU Berlin, heading the research group Formal Models, Logic and Programming, and since 1987 the project groups Artificial Intelligence and Text Understanding (KIT). His key research areas are: Mathematical Foundations of Computer Science, Theory of Software and System Architectures and Theory of Modelling. Besides being a member of various university and other bodies and commissions, he is chairman of the board and managing director of the Society of Friends of TU Berlin.

Professor Mahr was co-organiser of TAPSOFT 1985 and co-chair of TAPSOFT 2005, co-chair of IFIP-ODP 1993, and chair of ETAPS 2000.

## Local Team

The local team will comprise at least the following:

### Dr.-Ing. Stephan Herrmann
Assistant Professor, Software Engineering Group, TU Berlin

### Dr.-Ing. Thomas Santen
Assistant Professor, Software Engineering Group, TU Berlin

### Dirk Seifert
Research assistant, Software Engineering Group, TU Berlin

### Doris Fähndrich
Programmer, Software Engineering Group, TU Berlin

### Kerstin Buhr
Phd student, Software Engineering Group, TU Berlin

### Susanne Jucknat-John
Research assistant, Software Engineering Group, TU Berlin

### BWO Marketing Service GmbH
is an advertising and event organizing company. There is a long tradition of cooperation in organizing conferences: ICSE 1996, SI 2000, ZUM 1998, ETAPS 2000, ECAI 2000, Informatik 2000.

# Budget Estimate

based on 2003 rates in Euro with a general increase of 25€ per person.
The following is an extract from a much more detailed calculation.

## Fee structure

| | | Conference | WS only | 1 Tutorial | 2 Tutor. | 3 Tutor. | 4 Tutor. |
|---|---|---|---|---|---|---|---|
| Regular | early | 550 | 250 | 210 | 360 | 500 | 585 |
| | late | 655 | 295 | 270 | 455 | 650 | 755 |
| | on-site | 760 | 340 | 315 | 495 | 695 | 805 |
| Reduced | early | 340 | 250 | 120 | 210 | 290 | 355 |
| | late | 340 | 295 | 155 | 255 | 340 | 420 |
| | on-site | 340 | 340 | 190 | 290 | 375 | 460 |
| Student | early | 275 | 150 | 90 | 145 | 190 | 230 |
| | late | 325 | 175 | 100 | 175 | 230 | 285 |
| | on-site | 375 | 200 | 135 | 210 | 265 | 325 |
| Extra Banquet | | 80 | | | | | |

## Participants

| | Numbers | Fee Income | | |
|---|---|---|---|---|
| Regular | 180 | | | |
| Reduced | 80 | | | |
| Students | 140 | Regular | Reduced | Students |
| Conference | 300 | 79,353.00 € | 20,400.00 € | 30,765.00 € |
| WS/only | 88 | 10,541.52 € | 4,685.12 € | 4,897.20 € |
| Tut/only | 12 | 22,642.29 € | 5,757.08 € | 6,923.14 € |
| Extra Banquet | 16 | 1,280.00 € | | |
| **Total** | **400** | | | **187,244.35 €** |

| | Fixed | Variable | Total |
|---|---|---|---|
| Meals/Catering | | | |
| Lunch/Coffee breaks | | -16,896.00 € | |
| Receptions | | -16,000.00 € | |
| Banquet | | -13,800.00 € | -46,696.00 € |
| Conf.Bag | | | |
| Printing & Proceedings | | -32,000.00 € | |
| Bag & Gifts | | -6,000.00 € | |
| Ticket local transportation | | -8,000.00 € | -46,000.00 € |
| Financial/Management | | | |
| Bank fees | | -9,362.22 € | |
| Management fee | | -18,724.44 € | |
| Personell during conference | -15,000.00 € | | -43,086.65 € |
| Invited Speakers etc | | | |
| Invited Speakers | -3,875.00 € | | |
| Tutorial Speakers | -16,000.00 € | | -19,875.00 € |
| Rooms (incl. tech. equipm.) | | | |
| Main hall | -8,100.00 € | | |
| Workshops & Tutorials | -5,100.00 € | | |
| Demo,BoFs,Secretary, Exhibtions,WS Reception | -6,225.00 € | | |
| Conference Reception | -4,000.00 € | | |
| Banquet (incl. music/transfer) | -3,000.00 € | -1,142.86 € | -27,567.86 € |
| Advertising | | | |
| Printing | -5,500.00 € | | |
| Banner, Signs, Decoration | -8,700.00 € | | -14,200.00 € |
| Unforseen expenses | -4,000.00 € | | -4,000.00 € |
| Exhibitions | 10,000.00 € | | 10,000.00 € |
| Sponsorship | 10,000.00 € | | 10,000.00 € |
| PC Meeting | -5,000.00 € | | -5,000.00 € |
| Total | -64,500.00 € | 65,318.84 € | **818.84 €** |

## What-if calculations

If more than 400 participants register, the following figures will result:

| Number of participants | 450 | 500 |
|---|---|---|
| Total surplus | 4,730.68 € | 8,592.52 € |