



**ECOOP2003**  
D A R M S T A D T   G E R M A N Y

# **17th European Conference on Object-Oriented Programming**

Darmstadt, July 21-25 2003

## **Final Report**

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# INTRODUCTION

This document is the final report of ECOOP 2003 in Darmstadt. The conference was held from July 21<sup>st</sup> to 25<sup>th</sup> and was attended by participants from all over the world. Compared to previous ECOOP events, the structure of the conference did not change: the first two days were dedicated to workshops and tutorials, while the main conference ran from Wednesday to Friday. All conference events took place at Darmstadt University of Technology, while some social events were at different locations.

ECOOP 2003 included interactive workshops, outstanding tutorials, thought-provoking invited talks, a panel designed to surface controversy and provoke audience participation, technical papers on the latest research subjects, and practitioners' reports sharing lessons learned from development experiences. A doctoral symposium enabled Ph.D. students to get feedback on their research ideas. Birds of a Feather (BoF) sessions were a good opportunity for participants to meet with peers interested in the same topics. Posters, demonstrations and, last but not least, social events enabled all participants to network with colleagues.

The programme in brief looked as follows: 24 tutorials and 20 workshops were held on Monday and Tuesday. The technical program consisted of six technical sessions, during which 18 papers, three invited talks, a panel, three BoF meetings, 8 demos, and 7 posters were presented. Besides, social activities took place on Monday, Wednesday and Thursday.

The conference was a very successful event. Apart from gains in experience, knowledge and views, we made a profit of over 47,000 €. Compared to previous ECOOPs, this is a very good result. Despite the very good financial result, we offered a good service to conference participants. The welcome party, the banquet dinner and the coffee breaks were very well received by the participants, and so were the conference's overall organization and service. We arranged for low-priced accomodation and provided all participants with free tickets for local transportation in Darmstadt, so that they could easily get from the hotel to the conference venue and go on sightseeing tours.

The preparations of the event were very time-consuming and we learned greatly from them. We studied past ECOOP organizers' experiences and adopted very much from them but also changed some issues or added new event modes. In the following chapters, we want to recapitulate the conference on the one hand, but also, on the other, share some of our experience and give suggestions for organizers of subsequent ECOOPs.

For ECOOP 2003, many people have done their best to create an outstanding technical conference with a wide variety of events and activities. I sincerely thank the authors, presenters, the entire conference committee, and all the other volunteers who have made ECOOP 2003 not only possible, but an outstanding event. Special thanks go to the ECOOP team within the Software Technology Group at Darmstadt University of Technology for their extraordinary dedication and support without which this conference would not have been possible. Many thanks also go to the administration of Darmstadt University of Technology for being extremely helpful throughout the organization process. Thank you to AITO for sponsoring the conference and keeping us in track, while encouraging our innovations. I would like to thank the Deutsche Forschungsgemeinschaft (DFG) and our industrial sponsors for their financial support. Finally, I would like to thank all ECOOP 2003 participants who made the conference such an outstanding event.

Darmstadt, March 1<sup>st</sup> , 2004

Mira Mezini  
ECOOP 2003 Organizing Chair

# FINANCIAL STATEMENT

## Income

### Fees

The following tables summarize all income chapters. In the first place, the tables 1, 2 and 3 show the ECOOP 2003 registration fees. Compared to previous ECOOPs, we had a slightly different fee model. On the one hand, we kept the calculation of fees based on registration time. By registering early, participants could book at a reduced rate. On the other hand, we introduced new booking modes: participants could register for tutorials only, we had special fees for exhibitors and ECOOP committee members, the banquet ticket was part of the conference fee (except for students) and the fee for accompanying persons included all evening events (reception, welcome party, banquet).

<b>Regular</b>		+1 tutorial	+2 tutorials	+3 tutorials	+4 tutorials
Conference	525.00 €	200.00 €	360.00 €	480.00 €	560.00 €
Tutorial Only		250.00 €	450.00 €	600.00 €	700.00 €
Workshop Only	225.00 €	250.00 €	450.00 €	600.00 €	700.00 €

<b>Student</b>		+1 tutorial	+2 tutorials	+3 tutorials	+4 tutorials
Conference	250.00 €	100.00 €	180.00 €	240.00 €	280.00 €
Workshop Only	125.00 €				

<b>Exhibitor</b>		+1 tutorial	+2 tutorials	+3 tutorials	+4 tutorials
Conference	500.00 €	190.00 €	340.00 €	450.00 €	510.00 €
Tutorial Only		240.00 €	430.00 €	570.00 €	640.00 €

<b>Accompanying Person</b>	200.00 €
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<b>ECOOP Committee Member</b>	315.00 €
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Table 1 - Fees for early registration

<b>Regular</b>		+1 tutorial	+2 tutorials	+3 tutorials	+4 tutorials
Conference	630.00 €	240.00 €	430.00 €	575.00 €	670.00 €
Tutorial Only		300.00 €	540.00 €	720.00 €	840.00 €
Workshop Only	270.00 €	300.00 €	540.00 €	720.00 €	840.00 €

<b>Student</b>		+1 tutorial	+2 tutorials	+3 tutorials	+4 tutorials
Conference	300.00 €	120.00 €	215.00 €	290.00 €	335.00 €
Workshop Only	150.00 €				

<b>Accompanying Person</b>	240.00 €
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Table 2 - Fees for late registration

This pricing model allowed for a better calculation of the banquet ticket price, as well as discounts for people having booked more than one tutorial. We also wanted to make participants register in

<b>Regular</b>		+1 tutorial	+2 tutorials	+3 tutorials	+4 tutorials
Conference	735.00 €	280.00 €	505.00 €	670.00 €	785.00 €
Tutorial Only		350.00 €	630.00 €	840.00 €	980.00 €
Workshop Only	315.00 €	350.00 €	630.00 €	840.00 €	980.00 €

<b>Student</b>		+1 tutorial	+2 tutorials	+3 tutorials	+4 tutorials
Conference	350.00 €	140.00 €	250.00 €	335.00 €	390.00 €
Workshop Only	175.00 €				

<b>Accompanying Person</b>	280.00 €
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Table 3 - Fees for on-site registration

the early period to gain more information concerning resource needs.

## Participants

Figure 1 shows that the major part of participants were registered as „regular“, but we also had a high number of students (the amount of students is as high as that of ECOOP 2002). As you can see in figure 2, most people registered for the conference, but there were also many participants registered for workshops only.

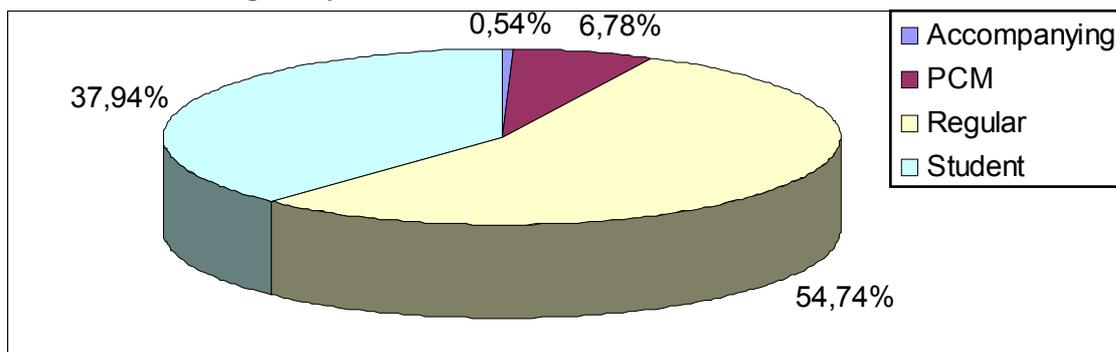


Figure 1- Registered participants by category

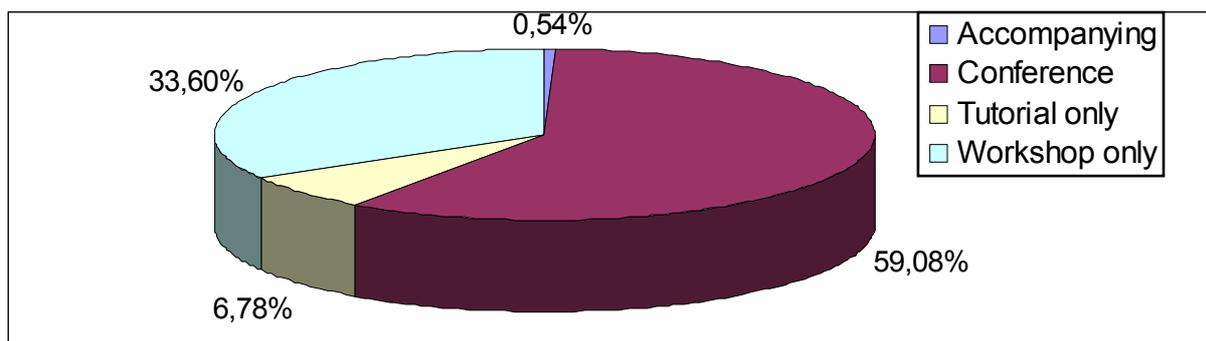


Figure 2- Registered participants by booking

Table 4 shows the number of registered participants in each category with the corresponding income in the categories conference, tutorials and workshops. Apart from the participants listed here, 97 people were granted free registration: organizing committee members, invited speakers, sponsors, exhibitors, and student volunteers.

The number of sold tutorial units was quite low. We sold 164 units, which is more than in 2002 (147), but less than in 2000 and 2001 (298 and 370, respectively).

Time	Booking	Type	# Tut.	# Part.	Conference	Tutorials	Workshops
Early	Accompanying Person		0	2	400 €	0 €	0 €
	Conference	Pcm	0	17	5.355 €	0 €	0 €
			3	1	315 €	480 €	0 €
		Regular	0	70	36.750 €	0 €	0 €
			1	7	3.675 €	1.400 €	0 €
			2	5	2.625 €	1.800 €	0 €
			3	1	525 €	480 €	0 €
			4	6	3.150 €	3.360 €	0 €
		Student	0	54	13.500 €	0 €	0 €
			1	13	3.250 €	1.300 €	0 €
			2	7	1.750 €	1.260 €	0 €
			3	2	500 €	480 €	0 €
			4	1	250 €	280 €	0 €
	Tutorial	Regular	1	10	0 €	2.500 €	0 €
			2	3	0 €	1.350 €	0 €
			3	3	0 €	1.800 €	0 €
			4	3	0 €	2.100 €	0 €
		Student	2	2	0 €	360 €	0 €
			4	1	0 €	280 €	0 €
	Workshop	Pcm	0	4	0 €	0 €	900 €
		Regular	0	49	0 €	0 €	11.025 €
			1	3	0 €	750 €	675 €
			2	2	0 €	900 €	450 €
Student		0	38	0 €	0 €	4.750 €	
Late	Conference	Pcm	0	2	1.260 €	0 €	0 €
		Regular	0	13	8.190 €	0 €	0 €
			1	1	630 €	240 €	0 €
			2	1	630 €	430 €	0 €
			3	1	630 €	575 €	0 €
			4	2	1.260 €	1.340 €	0 €
		Student	0	10	3.000 €	0 €	0 €
	3		1	300 €	290 €	0 €	
	Tutorial	Regular	1	1	0 €	300 €	0 €
			2	1	0 €	540 €	0 €
		Student	2	1	0 €	540 €	0 €
	Workshop	Pcm	0	1	0 €	0 €	270 €
		Regular	0	16	0 €	0 €	4.320 €
			1	2	0 €	600 €	540 €
		Student	0	7	0 €	0 €	1.050 €
Onsite	Conference	Regular	4	1	735 €	785 €	0 €
		Student	0	2	700 €	0 €	0 €
	Workshop	Regular	0	1	0 €	0 €	270 €
		Student	0	1	0 €	0 €	175 €

Table 4 - Registered participants and income by category

## Donations and Exhibition

Another main income position are donations. Table 5 gives an overview over all donators of ECOOP 2003, ordered by the amount of the donation. We only had two exhibitors: d.punkt, who made a donation and Springer, the publisher of the ECOOP proceedings. The total income in this chapter amounts to 23.500 €.

<b>Donator</b>
DFG (German Science Foundation)
Sun Microsystems
Microsoft Research
ERCIM
InterSystems
d.punkt

Table 5 - Donators

## Summary

In table 6 you can find a summary of the total income from the different chapters. The last category (“Others”) contains those incomes that do not fit into the former chapters, e. g., merchandising earnings or the sale of proceedings and tutorial notes. The AITO loan is not included in this table because it is an item in transit.

	<b>Income in EUR</b>	<b>Proportion in percent</b>
Conference	79.140,00 €	47,23
Workshop	24.425,00 €	14,58
Tutorials	26.520,00 €	15,83
Banquet	13.360,00 €	7,97
Donations	23.500,00 €	14,03
Others	610,00 €	0,36
<b>Total</b>	<b>167.555,00 €</b>	<b>100,00</b>

Table 6 - Summary of all income chapters

As you can see, the registration income (conference, workshop and tutorial) is the main income part, forming about 77 % of the total income. The remaining 23 % mainly come from donations and the sale of banquet tickets which was included in the conference fee.

## Expenses

A detailed overview of the expenses can be seen in the financial statement in table 10. In this chapter we will present a detailed view of some chapters.

In ECOOP 2003, Martin Abadi, Carl Gunter and Mary Fernández were the invited speakers. Apart from granting them free access to the conference and the banquet dinner, we covered their complete travel expenses and they obtained a honorarium of 500 € each. Table 7 shows the expenses for the invited speakers. In addition to that, we covered their accomodation which amounted for another 510 € in total. This resulted in total expenses of 4,486.10 €.

<b>Invited Speaker</b>	<b>Expenses</b>
Martin Abadi	1.687,42 €

<b>Invited Speaker</b>	<b>Expenses</b>
Carl Gunter	1.173,50 €
Mary Fernández	1.115,18 €
<b>Total</b>	<b>3.976,10 €</b>

*Table 7 - Expenses for invited speakers*

The expenses for all tutorial speakers are listed in table 8. Please note that, in this table, the cost for accommodation is included in the expenses. Apart from a refund for their travel expenses depending on their country of origin and their actual expenses, tutorial speakers received a honorarium based on the length of the tutorial and the number of participants. In table 9, the corresponding calculation schema can be found. The honorarium was payed on a per-tutorial basis: if two or more persons held a tutorial together, the amount was payed only once. If a single person held several tutorials, they got the amount several times.

For travel and accommodation expenses, the payment model was slightly more complex. All tutorial speakers were divided into 2 groups: those coming from Europe and all others. For European tutorial speakers we refunded at most 475 €, for others 750 € for the flight. If the actual expenses were lower, only those were refunded. Speakers arriving with their own car got 22 cent per kilometer. For each speaker who held a tutorial, a hotel room was reserved and paid for two nights (102 €).

<b>Tutorial Speaker</b>	<b>Expenses</b>
Aden, J.	1.057,82 €
Völter, M.	650,44 €
Stal, M.	1.999,80 €
Holmes, D.	1.033,09 €
Lea, D.	1.029,38 €
Larman, C.	2.881,92 €
Bosch, J.	1.080,80 €
Schmid, K.; John, I.	179,25 €
Muthig, D.; Kettemann, S.	343,50 €
Brito e Abreu, F.	700,74 €
Striegnitz, J.	720,58 €
Hruby, P.	334,42 €
Yoder, J.	1.870,95 €
Singh, G.	1.072,60 €
Eisenecker, U.	885,80 €
<b>Total</b>	<b>15.841,09 €</b>

*Table 8 - Expenses for tutorial speakers*

<b>Participants</b>	<b>Half-day tutorial</b>	<b>Full-day tutorial</b>
0 – 3	0,00 €	0,00 €
4 – 6	250,00 €	250,00 €
> 6	500,00 €	850,00 €

*Table 9 - Honorarium for tutorial speakers*

Compared to previous ECOOP conferences, we had more expenses for internal costs like the students' honorarium or administration costs. This is due to the fact that we did a bulk of work on our own instead of using external services.

## Global Financial Statement

The following table summarizes the financial statement according to the template from AITO. All values are in Euro, empty fields indicate no income or expenses for that category.

Category	Key		Income	Expenses	Balance
Publicity and Printing	10	Call-for-papers			
	11	Call-for-participation		632,20 €	
	12	Advertizing			
	13	Mailing		4.125,10 €	
	14	Final Program		2.476,00 €	
	15	Signpost, Badges, Tickets		1.855,95 €	
	<b>SUM</b>			<b>0,00 €</b>	<b>9.089,25 €</b>
Conference	20	PC Meeting Support			
	21	Invited Speakers		4.486,10 €	
	22	Conference fees	79.140,00 €		
	23	Donations	23.500,00 €		
	24	Insurance			
	25	Proceedings		7.742,80 €	
	26	Room Rent			
	27	Panels			
	28	Banquet Room		383,53 €	
	29	Banquet	13.360,00 €	14.650,00 €	
	<b>SUM</b>		<b>116.000,00 €</b>	<b>27.262,43 €</b>	
Tutorials	30	Speaker reimbursement		15.841,09 €	
	31	Material			
	32	Tutorial fees	26.520,00 €		
	33	Tutorial/WS lunches		8.570,04 €	
	34	Tutorial notes		669,94 €	
	35	Fees WS only	24.425,00 €		
	<b>SUM</b>		<b>50.945,00 €</b>	<b>25.081,07 €</b>	
Catering	40	Receptions, Coffee breaks		18.682,10 €	
	41	Wages			
	<b>SUM</b>		<b>0,00 €</b>	<b>18.682,10 €</b>	<b>-18.682,10 €</b>
Exhibition	50	Booth rental			
	52	Exhibition fees			
	<b>SUM</b>		<b>0,00 €</b>	<b>0,00 €</b>	<b>0,00 €</b>

Category	Key		Income	Expenses	Balance
Merchandise	60	Shirts, Bags	204,00 €	1.830,48 €	
	61	Proceedings	406,00 €		
	<b>SUM</b>		<b>610,00 €</b>	<b>1.830,48 €</b>	<b>-1.220,48 €</b>
Organization	70	Students honorarium		3.739,14 €	
	71	Office material, stationary		2.787,91 €	
	72	Machines		2.243,45 €	
	73	Rental fees			
	74	AITO Meeting		946,80 €	
	75	Transportation		2.576,00 €	
	76	Food		1.320,25 €	
	77	Telephone		500,00 €	
	78	Banking, Credit Cards		4.943,03 €	
	79	Interest			
	80	Administration		4.000,00 €	
	81	External Services		2.584,90 €	
	82	Registration		4.000,00 €	
	83	Registration		8.700,00 €	
	84	AITO loan	25.000,00 €	25.000,00 €	
	85	East european support			
	<b>SUM</b>		<b>25.000,00 €</b>	<b>63.341,48 €</b>	<b>-38.341,48 €</b>
Taxes	90	IVA			
	91	IRPEF			
	92	Various			
	<b>SUM</b>		<b>0,00 €</b>	<b>0,00 €</b>	<b>0,00 €</b>
<b>Total</b>			<b>192.555,00 €</b>	<b>145.286,81 €</b>	<b>47.268,19 €</b>

Table 10 - Financial statement

In most chapters, we are in line with previous ECOOPs, mostly with just slightly different expenses or income. An explanation of the most significant values follows.

- The costs in the first chapter are mainly printing costs. The final program and the posters were printed by a print office, while we printed badges, information materials and signposts on our own equipment.
- The conference took place on the premises of Darmstadt University of Technology, for which we did not have to pay any rental fees. We also could use the university's infrastructure, so there were no costs for internet access, rooms, and technical equipment like video projectors or microphones. We had to rent rooms for the banquet and the welcome party which took place at other locations.
- Tutorials and workshops were very successful this year. We did not sell as many tutorial units as we had expected, but we also did not have high costs, so that this chapter was the second biggest part of the total balance.
- For conference catering we could use the university refectory. There were no wages because the

biggest part of the work was done by our student volunteers.

- At ECOOP 2003, we did not have a big exhibition. Two publishers presented parts of their offerings, but they had their own booths so that there were no costs in this chapter.
- The biggest part of all expenses is the organization. We spent about 38,000 € for this chapter. This is slightly higher than in previous ECOOPs but is due to the fact that we did a lot of work on our own in order to save money (external services are mostly more expensive).

# ORGANIZATION

## General Organization

For the general organization we decided to follow the experiences from previous ECOOPs. The executive committee consisted of the conference chair (Rachid Guerraoui), the program chair (Luca Cardelli) and the organizing chair (Mira Mezini). For all building blocks of ECOOP, there were special chairs which were responsible for the organization of workshops, tutorials, exhibitions, doctoral symposium, posters and demos, and the general conference. While the exhibition chair was only one person and the general conference organization was done by seven persons (all local), all other chairs were assigned to two persons (and at least one experienced person).

We also structured the local organization such that every concern was managed by one person. For example, one person was dealing with student volunteer affairs and another person was managing all financial issues. This organization turned out to be advantageous because everybody knew the person responsible for a specific task and the organizers could concentrate on their specific tasks. We do not think that an organization such that "everybody does everything" is applicable to an event as large as this.

## Registration Process

Contrary to previous ECOOP conferences, we organized the registration process on our own instead of outsourcing it to a travel agency. The registration form was a web application accessible online through the ECOOP website. It ran on our web server. Participants had to fill in their personal data and choose their type of registration. All these data were stored in a local database. In case of problems, we were always available by phone or email. For the accommodation of the participants, we concluded a contract with Maritim Hotels in Darmstadt to obtain good terms of condition. Every participant could decide to book a room through us or on their own. Payment handling was subcontracted to a credit card company.

The registration site was opened on March 30<sup>th</sup>. Early registration was open until June 20<sup>th</sup> (where accommodation in the Maritim hotels was not guaranteed for registrations after June 6<sup>th</sup>) and late registration up to one week before the conference started. Figure 1 shows registration distribution over three registration periods. As you can see in figure 2, a peak occurred just before June 6<sup>th</sup> which was the initial time frame for early registration. To attract more participants, we decided to extend this period by another two weeks. Figure 3 shows the cumulative number of registrations. It is remarkable that most participants protracted their registrations until the end of the early registration period. Organizers of subsequent ECOOPs should keep this in mind, because the workload for an unautomated registration process could be very high at this time. Only five persons registered on site.

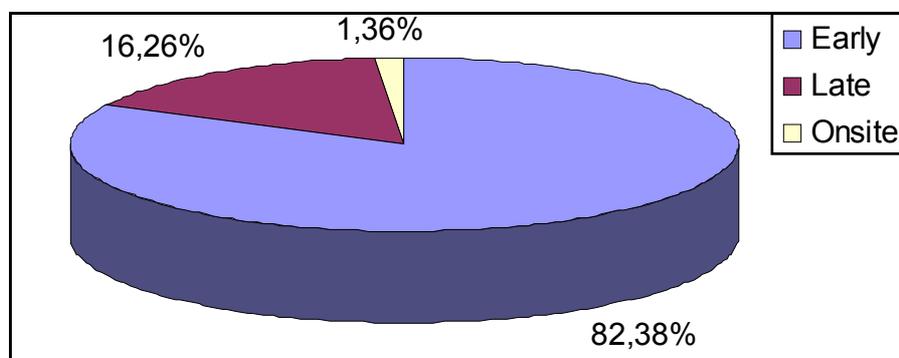


Figure 1 - Participants by registration period

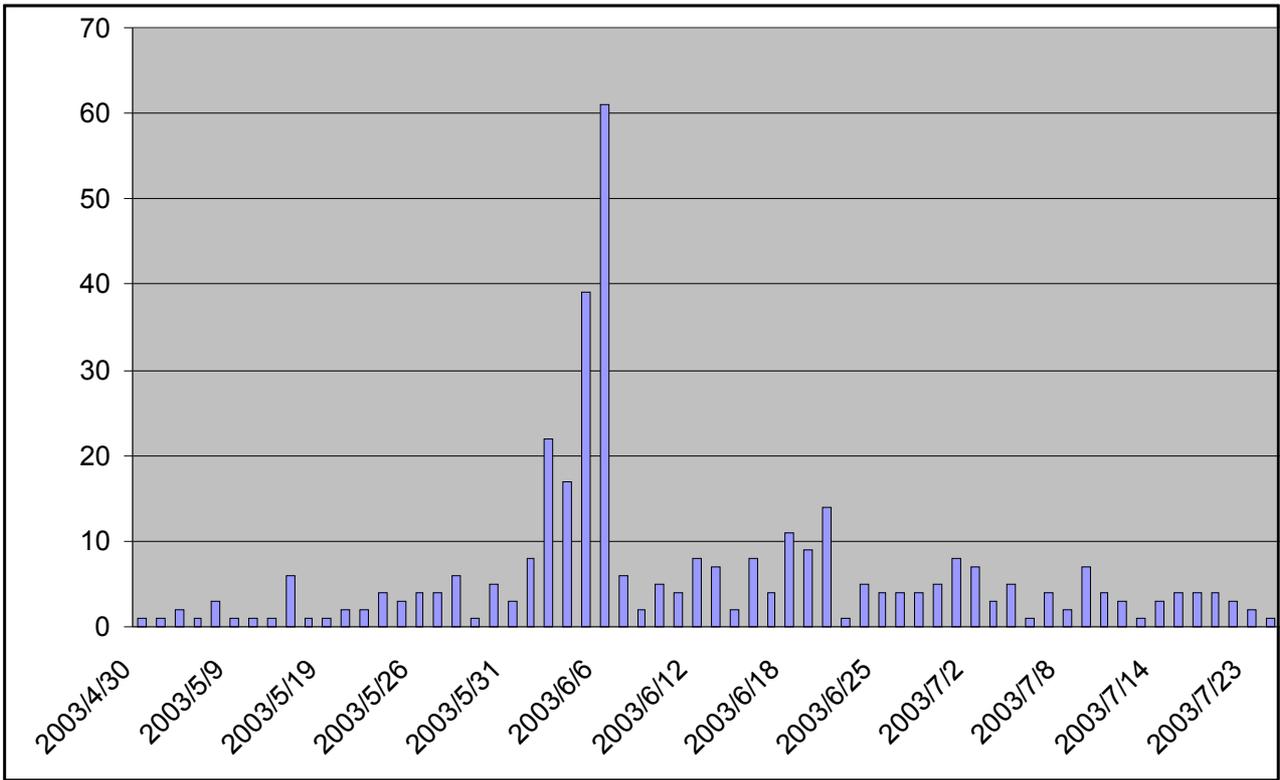


Figure 2 - Registrations by time

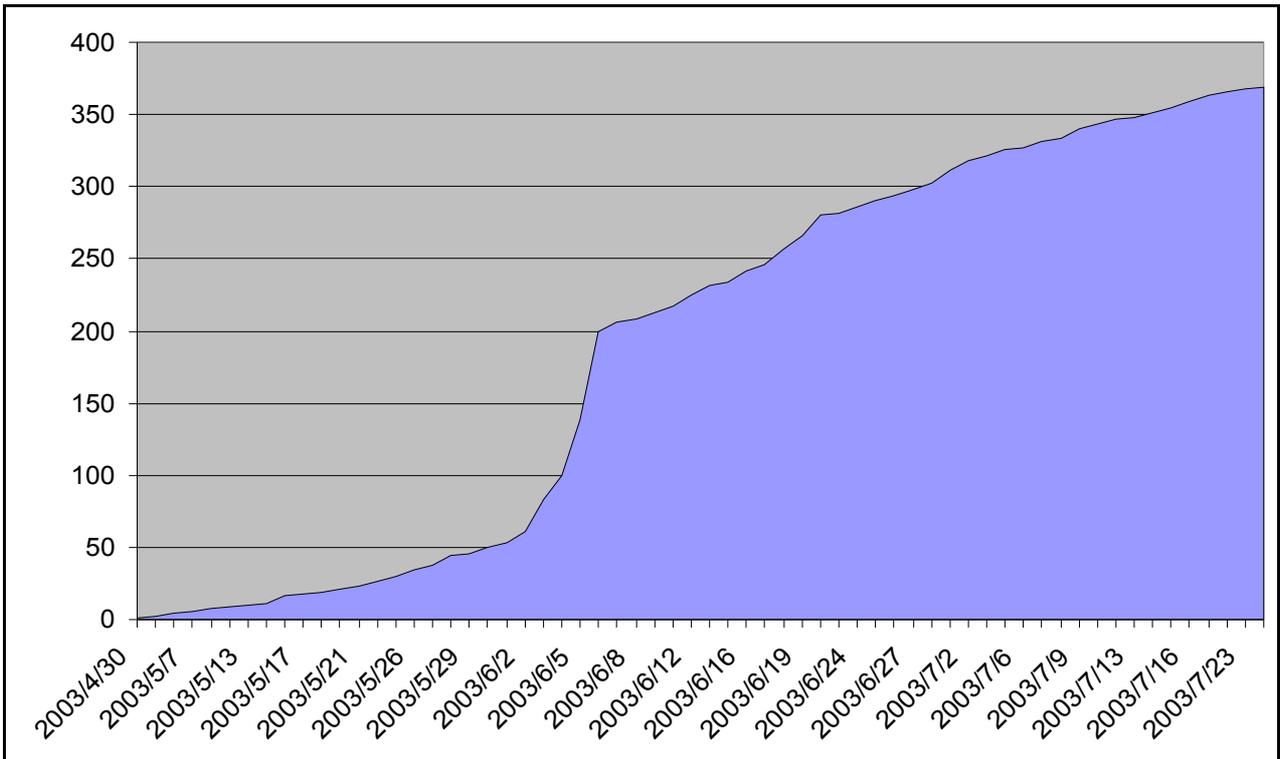


Figure 3 - Cumulative registrations by time

### Invitation letters

Citizens of some countries require a visa for entering the European Community (Germany). About 20 persons asked us to send them an invitation letter because they required it in order to apply for a visa. We sent out invitation letters to them after they had paid.

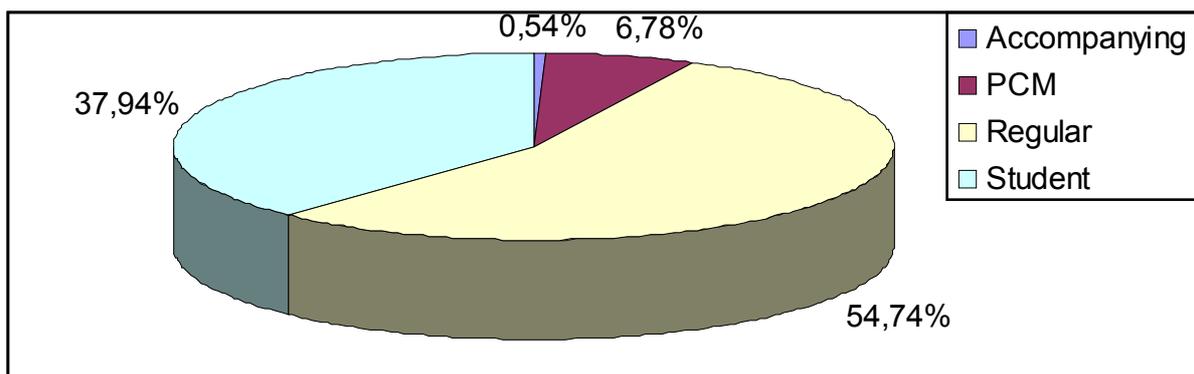
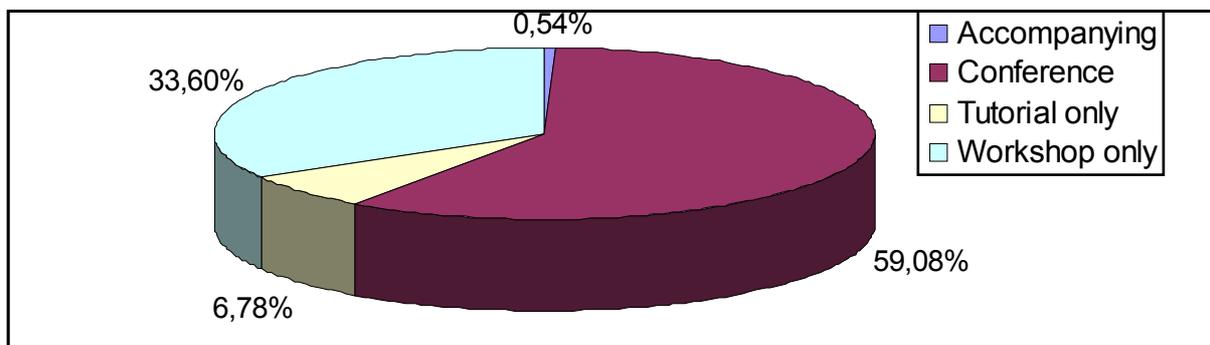
Most of such requests for invitation letters came from African countries (most notably Nigeria). Unfortunately, **all** payments by persons from Africa were done using stolen credit cards so that we had to revoke all such registrations later on. None of the respective persons attended the conference.

### On-site registrations

Although there were just five on-site registrations at the conference, the workload for such a registration is quite high. The registration form has to be filled in, the badge to be printed, all materials for the conference bag to be collected, etc. We suggest to offer a pre-registration form for on-site registrations, so that participants can input the data on their own. So data input, which is one of the most time consuming tasks, can be done before the other registration parts like printing the badge, package the conference bag and so on.

### Participation

We had a total of 369 participants, excluding local organizers and volunteers. Participants came from 25 different countries, most of them from Europe (about 75 %). Three quarters of all participants were researchers or students while the last quarter came from industry. The next figures show what participants have booked and in which role they are registered (PCM = Program Committee Member).



### Technical Program

As you can see in figure 4, tutorials and workshops were held on Monday and Tuesday while the main conference took place from Wednesday to Friday, which is the usual ECOOP time schedule.

	Monday	Tuesday	Wednesday	Thursday	Friday
(8:30 - 9:00)			Opening	Opening	Opening
Morning (9:00 - 10:30)	<b>R</b> <b>Tutorials</b> 1,4,8,10,16,24,30 <b>Workshops</b> 1,5,6,7,8,9,13,16,17,19,20	<b>R</b> <b>Tutorials</b> 2,3,12,14,27,28 <b>Workshops</b> 2,3,4,6,10,11,12,14,15,21	<b>R</b> <b>Invited Talk</b> Martin Abadi	<b>R</b> <b>Invited Talk</b> Carl Gunter	<b>R</b> <b>Invited Talk</b> Mary Fernández
Coffee Break					
(11:00 - 12:30)	<b>r</b> <b>Tutorials</b> 1,4,8,10,16,24,30 <b>Workshops</b> 1,5,6,7,8,9,13,16,17,19,20	<b>r</b> <b>Tutorials</b> 2,3,12,14,27,28 <b>Workshops</b> 2,3,4,6,10,11,12,14,15,21	<b>r</b> <b>Session 1 Demos</b> 1,2 S1/01/07	<b>r</b> <b>Session 4 Demos</b> 1,2 S1/01/07	<b>r</b> <b>Session 6 Demos</b> 7,8 S1/01/07
Lunch					
Afternoon (13:30 - 15:00)	<b>o</b> <b>Tutorials</b> 1,5,13,17,19,23,30 <b>Workshops</b> 1,5,6,7,8,9,13,16,17,19,20	<b>o</b> <b>Tutorials</b> 6,9,11,15,18,25,26 <b>Workshops</b> 2,3,4,6,10,11,12,14,15,21	<b>o</b> <b>Session 2 Demos</b> 3,4 S1/01/07 <b>Practitioner Reports</b> S1/01	<b>o</b> <b>Session 5 Demos</b> 3,4 S1/01/07 <b>Practitioner Reports</b> S1/01	
Coffee Break					
(15:30 - 17:00)	<b>e</b> <b>Tutorials</b> 1,5,13,17,19,23,30 <b>Workshops</b> 1,5,6,7,8,9,13,16,17,19,20	<b>e</b> <b>Tutorials</b> 6,9,11,15,18,25,26 <b>Workshops</b> 2,3,4,6,10,11,12,14,15,21	<b>e</b> <b>Session 3 Demos</b> 5,6 S1/01/07 <b>Practitioner Reports</b> S1/01	<b>e</b> Panel <b>Demos</b> 5,6 S1/01/07	
Evening (19:00)	Reception Otto Berndt Halle	<b>Eclipse BOF</b> Maritim Hotel	Welcome Party / <b>Poster Session</b> Maritim Hotel	Conference Dinner Orangerie	

Figure 4 - Overview of the technical program

## Invited Talks

As mentioned before, we had three invited talks. The covered topics were chosen from a broad spectrum, as table 11 shows. On Wednesday, Thursday and Friday, the conference day started with an invited talk.

Invited Speaker	Topic
Martin Abadi	Built-in Object Security
Carl Gunter	Open APIs for Embedded Systems
Mary Fernández	A Query Language for XML (or... Memoir of a W3C standards hacker)

Table 11 - Invited talks

## Technical sessions

At ECOOP 2003, we had six technical sessions with a total of 18 submitted papers. Three technical sessions were held on Wednesday, two on Thursday, with the panel in the afternoon, and the last session took place on Friday. Table 12 gives an overview over all sessions and the presented papers.

Session	Authors	Topic
1	Masuhara, K.; Kiczales, G.	Modeling Crosscutting in Aspect-Oriented Mechanisms
1	Popovici, A.; Alonso, G.; Gross, T.	Spontaneous Container Services
1	Jagadeesan, R.; Jeffrey, A.; Riely, J.	A calculus of Untyped Aspect-Oriented Programs
2	Aldrich, J.; Sazawal, V.; Chambers, C.; Notkin, D.	Language Support for Connector Abstractions
2	Grothoff, C.	Walkabout revisited: The Runabout
2	Shrira, L.; Tian, H.	MX: Mobile Object Exchange for Collaborative Applications
3	Gapeyev, V.; Pierce, B.	Regular Object Types
3	Clarke, D.; Wrigstad, T.	External Uniqueness is Unique Enough
3	Odersky, M.; Cremet, V.; Roeckl, C.; Zenger, M.	A Nominal Theory of Objects with Dependent Types
4	Schärli, N.; Ducasse, S.; Nierstrasz, O.; Black, A.	Traits: Composable Units of Behaviour
4	Lam, P.; Rinard, M.	A Type System and Analysis for the Automatic Extraction and Enforcement of Design Information
4	Ernst, E.	Higher-Order Hierarchies
5	Zibin, Y.; Gil, Y.	Two-Dimensional Bi-Directional Object Layout
5	Mitchell, N.; Sevitsky, G.	LeakBot: An Automated and Lightweight Tool for Diagnosing Memory Leaks in Large Java Applications
5	Palacz, K.; Vitek, J.	Java Subtype tests in Real Time
6	Henkel, J.; Diwan, A.	Discovering Algebraic Specifications from Java Classes
6	Borba, P.; Sampaio, A.; Cornelio, M.	A Refinement Algebra for Object-Oriented Programming
6	Conradi, R.; Mohagheghi, P.; Arif, T.; Hegde, L.; Bunde, G.; Pedersen, A.	Object-Oriented Reading Techniques for Inspection of UML Models - An Industrial Experiment

Table 12 - Technical sessions

The organization of the technical program was the responsibility of the Program Chair while local organization helped with the logistic issues like setting up the conference hall, supplying electronic equipment and so on. In every session, two student volunteers were ready to hand microphones to participants and to help in case of technical problems. Also, an experienced member of local organization was nearby most of the time to aid in the case of unforeseen problems.

## Workshops

Like table 13 shows, 20 workshops were hosted at ECOOP 2003 (one workshop was cancelled). The selection process was managed by the workshop chair. Workshop proposals had to arrive until December 1<sup>st</sup>, 2002. Two weeks later, notifications of acceptance were sent out. The workshops' calls for papers started at January 31<sup>st</sup>, 2003 and applicants had to submit their papers until April 25<sup>th</sup>. As in previous years, ECOOP 2003 hosted workshops addressing different areas of object-

oriented technology and therewith served as a forum for exchanging late breaking ideas and theories in an evolutionary stage. All workshops typically focused either on in-depth or broad-ranging approaches to areas related to object-oriented technology.

WS	Title
1	Exception Handling in Object Oriented Systems: towards Emerging Application Areas and New Programming Paradigms
2	Parallel/High-Performance Object-Oriented Scientific Computing
3	Communication Abstractions for Distributed Systems
4	.NET: The Programmer's Perspective
5	Eighth International Workshop on Component-Oriented Programming (WCOP 2003)
6	13th Workshop for PhD Students in Object-Oriented Systems
7	Formal Techniques for Java-like Programs
8	4th International Workshop on Object-Oriented Reengineering
9	9th ECOOP Workshop on Mobile Object Systems (Resource Aware Computing)
10	7th ECOOP Workshop on Quantitative Approaches in Object-Oriented Software Engineering
11	Correctness of Model-based Software Composition (CMC)
12	Third International Workshop on Composition Languages (WCL2003)
13	Seventh Workshop on Pedagogies and Tools for Learning Object-Oriented Concepts
14	Patterns in Teaching Software Development
15	Object-Oriented Language Engineering for the Post-Java Era
16	Workshop on Analysis of Aspect-Oriented Software
17	Modeling Variability for Object-Oriented Product Lines
18	<i>Model-Driven and Agile Development (canceled)</i>
19	First European Workshop on Object-Oriented and Web Services
20	Advancing the State-of-the-Art in Runtime Inspection
21	International Workshop on Aliasing, Confinement and Ownership

Table 13 - ECOOP 2003 Workshops

The interest in workshops was quite high and thus comparable to previous ECOOPs. Every workshop durated one day. For tips on the organization of workshops, consider to take a look into the ECOOP Final Report 2002. We followed the hints presented there and made good experiences.

## Tutorials

Especially for industry participants, tutorials are a very attractive element of ECOOP. Table 14 shows the tutorials held this year. Four tutorials were cancelled at the tutorial speaker's wish or due to lack of interest. Tutorial attendance varied greatly. Some tutorials attracted less than five participants, while other tutorials attracted up to 25 participants. Instead of cancelling tutorials with too few participants, we had chosen a honorarium model based on the number of participants, so that we could retain tutorials and did not make a loss in this chapter.

Another point to mention is that we granted our student volunteers to visit every tutorial for free (if there was enough space), which was appreciated by them very much.

Tutorial	Title
1	Essential Object-Oriented Analysis and Design

<b>Tutorial</b>	<b>Title</b>
2	Source Code Generation: Concepts, Techniques and Tools
3	Distributed .NET
4	Introduction to .NET
5	Comparing J2EE and .NET
6	Reverse Engineering Architectures using Patterns - illustrated using Object-Oriented Middleware
8	Introduction to Concurrent Programming in Java
9	<i>An Introduction to Web Services (cancelled)</i>
10	An Agile UP with Scrum and XP Practices
11	Aspect-Oriented and Meta-Programming with AspectJ
12	3,000 Students Later: How to Teach OOA/D, OOP, and Patterns
13	Our Favorite Process Tips
14	Architecture-centric Software Engineering
15	Software Variability Management
16	Starting Software Product Lines (I) -Systematic Product Line Planning and Adoption
17	Starting Software Product Lines (II) -Product Line Analysis and Modeling
18	Model-driven Product Line Architectures
19	UML Design Metrics: Formalizing and Automating Collection with OCL
21	<i>Understanding Metamodeling (cancelled)</i>
22	<i>Test-Driven Development by Example (cancelled)</i>
23	Java Concurrency Utilities: Tools for Managing Multi-threading
24	Template Metaprogramming
25	Patterns of Business Software Applications in Model-Driven Architecture
26	Adaptive Object-Model Architecture: How to Build Systems That Can Dynamically Adapt to Changing Requirements
27	Patterns for Persisting Objects in Relational Databases
28	Automatic Derivation and Verification of Synchronization Aspects in Object Oriented Systems
29	<i>Developing Java Applications for Mobile Devices (cancelled)</i>
30	Generative Programming: Methods, Techniques, and Applications

Table 14 - ECOOP 2003 Tutorials

## Exhibits

There were only two exhibitors at ECOOP 2003: the two publishing companies d.punkt and Springer. Other companies showed little or no interest in having a booth. While Springer supported the conference as the publisher of the proceedings, d.punkt donated 1,000 €. Therefore, we granted one person access to the conference. Following the advice from ECOOP 2002, exhibition took place from Wednesday to Friday only.

## Demos

ECOOP 2003 hosted 8 demonstrations, which were held during the main conference, in parallel to the technical program and practitioner reports sessions. Each demonstration lasted 45 minutes and most of them were presented twice. Contrary to previous ECOOPs, we only reserved a single room next to the main conference hall for all presentations to attract more participants. Participation was quite variable: sometimes there were only two attendees, sometimes there were about 20. Table 15 lists the ECOOP 2003 demonstrations.

Demo	Title
1	An AspectJ-enabled Eclipse Core Runtime
2	Unified Data Architecture and The Latest About Caché 5
3	PROSE: From Hot-Fixes to Spontaneous Containers
4	SNAQue/J - A Program-Centric XML Binding Tool for Java
5	Nebras Enterprise: A Multi-Platform Framework for Building Enterprise Systems Based on UML Organization Models
6	Building Correct UML Models and Transforming them into Java Code Using OCLE
7	F-Script: An Object-Oriented Interactive Layer for the Mac OS X Object System
8	Programming Transparently Adaptable and Distributed Applications with SALSA/IO

Table 15 - ECOOP 2003 Demos

## Posters

Seven posters were presented at ECOOP 2003. On the one hand, posters were displayed in the coffee break area around the conference hall during the entire main conference. On the other hand, an "official" poster session took place during the welcome party on Wednesday evening at the Maritim Konferenzhotel. Poster authors were present next to their poster board to meet with attendees and discuss their work. Table 16 shows the topics presented by the poster submitters.

Poster	Title
1	HAD: Extending UML for the modelling of Hybrid Control Systems
2	Could Message Hierarchies Contemplate?
3	OCLE – an UML Tool Supporting the Development of OO Applications Using MDA
4	Dialogue-Based Aspect-Oriented Refactoring
5	A Typestate System for Simultaneous and Changing Data Structure Participation
6	Use Case Modularity Using Aspects
7	Overview: Event-Based Dynamic Distributed systems Visualization

Table 16 - ECOOP 2003 Posters

## Panel

The panel discussed the topic „Future Trends in Object Orientation“. It aimed at showing perspectives for future research and use of OO technology and gave a vision of what might come after Java, UML, XML, and components.

## Practitioner Reports

A new element that we introduced this year are practitioner reports. They provided an opportunity to hear about (mostly industrial) experiences made in applying object-oriented technologies and related software development practices. Practitioner reports explore how concepts that sound good on paper work in the real world. They are a valuable means of sharing experiences, especially at the "bleeding edge" of technology. ECOOP attendees were able to find out what it is like to adopt a new language, use a new method, develop a common framework, maintain a large application, or migrate to object and/or component technology. Expectations, beliefs, and hopes could be validated or dashed by the experiences reported from real-world projects. Table 17 shows the titles of the five reports. The events were well received and we suggest to retain them in the next ECOOPs.

Report	Title
1	Experiences with Large-Scale Agile Projects
2	Agile Building of Software Applications
3	Applying AOP in Commercial Projects
4	Development Upside Down: Following the Test First Trail
5	A UML-based Approach for Generating Object-Oriented Database Access Layers

Table 17 - ECOOP 2003 Practitioner Reports

## BOFs

"Birds of a Feather" sessions are informal gatherings that provide a forum for discussion of a particular topic, tool, product, etc. Several rooms were available for BOFs each evening from Monday through Thursday. Any conference attendee could reserve a room on a first-come, first-serve basis by signing up at the information booth at the conference and create a BOF session. BOF organizers were responsible for providing descriptive information for their session, which we posted on the BOF notice board. BOFs required no registration or submission for attendance. All ECOOP attendees could attend all BOF sessions.

This year, three BOFs were organized:

- The Code-In and Refactoring Party: Play Teacher and Student
- Research and Education with Eclipse
- The Specification Language JML

Inspired by the annual Camp Smalltalk at OOPSLA, the Code-In is a communal BOF event to share the love and fun with programming and tools. In essence, the Code-In involved developers pair programming, sharing their skills and tools. The BOF was run and organized by Craig Larman. About 20 participants met to present their tools, share experience and discuss new technologies like AOP.

The Eclipse BOF was sponsored by IBM and gave an opportunity to exchange information about the European Eclipse research community and to learn about the key challenges and opportunities experienced in working with Eclipse. A session with three 30-minute presentations gave an overview of new features in the next Eclipse release and about Eclipse-based tools. In addition Eclipse-related demos and posters were presented.

The last BOF was a place where people interested in the Java Modelling Language (JML) could meet. The current status of the language, its tools, future directions and priorities were discussed.

## Social Program

Beside the technical and scientific program, a social program was arranged during the five days of the conference. Table 18 displays an overview of the events.

<b>Weekday</b>	<b>Event</b>
Monday	Reception
Wednesday	Welcome Party
Thursday	Conference Dinner
Friday	Student Volunteers Party

*Table 18 - Social Programme*

The first event was a reception, which took place around Darmstadt University of Technology's refectory. It was an opportunity to meet other participants right at the beginning of the conference. Attendees were predominantly workshop and tutorial participants. The welcome party was in one of the Maritim Hotels. It was the event where all conference participants could come together to enjoy nice company, food, and music. The party also hosted the poster session. The conference dinner took place in the Orangerie in Darmstadt, one of the most beautiful places in the city. It was a nice banquet dinner in an exclusive setting. Last but not least there was a special party for all student volunteers on Friday to thank them for their help.

## **Accommodation**

For the accommodation of conference participants we had a frame-contract with the Maritim hotels in Darmstadt. There are two Maritim hotels, both located close to the main railway station and about 10 minutes from the conference location when using public transport. Both hotels could be reached very well from Frankfurt Airport and had enough rooms. Altogether, we reserved 400 rooms in the Maritim hotels. This led to special prices for ECOOP visitors when the rooms were booked in conjunction with the conference: 51 € per night for a single room, 66 € per night for a double room.

## **Internet Access**

To enable participants to read their email or take a look at a web site, we offered internet access during the whole week. We could use the resources of Darmstadt University of Technology. On the one hand, we offered an internet room with about 30 windows PCs. On the other, there were ethernet sockets available so that notebook users could connect to the internet. We also offered a HotSpot as another access possibility. Access guidelines, such as the required login and password, were printed in the conference information, which every participant had received.

## **Student Volunteers**

The student volunteers (SV) were a very important help for the accomplishment of the conference. The results of the questionnaires as well as the oral feedback from the participation show that their job was highly appreciated by the attendees.

Like proposed from the organizers of ECOOP 2002, one person in the organization committee was responsible for SV management. He selected them, answered their questions, and helped to solve their problems, e. g., related to their accommodation.

We issued a call for student volunteers half a year before the conference start. We also put some information on the website. The requirements were fluent English as well as being a student in the field of computer science. Among student volunteers' duties were the following:

- presence from Saturday, July 19<sup>th</sup> to Saturday, July 26<sup>th</sup>
- workshops and tutorials: guarding doors and technical support
- technical programme: guarding doors and handing out microphones
- social events: guarding doors and overall help
- registration desk and information booth

- stuffing the delegates' packages
- arranging and dearranging the conference area and workshop and tutorial rooms
- putting on signs for information and messages

For their help, we offered them:

- free admission to tutorials, workshops and the main conference during their spare time
- free lunches and coffee breaks on all conference days as well as welcome receptions on Monday and Wednesday
- 2 ECOOP t-shirts
- certificate of participation in the organization of ECOOP 2003
- 3 credit points if they were a student of Darmstadt University of Technology

The deadline for applications was the last day in March. In addition to the call for student volunteers we also told local students at Darmstadt University of Technology about the conference in lectures. Finally, we got nearly 40 student volunteers, most of whom were local students.

On Saturday, July 19<sup>th</sup>, we organized a student volunteers briefing. We introduced the local organizers, showed them all conference locations and explained the layout of the badges. For the task organization, we took the document "How to Organize ECOOP Conferences" and the needs of all chairs into account. For the support of workshop and/or tutorials, we asked the SVs for their preferences and tried to fulfill them. A schedule with all tasks was created and distributed among all SVs. It turned out to be a problem to plan all tasks in detail. After the first day we saw that in some areas we had too many SVs, while in many others we had too few. So, we decided to change the organization of the SVs. The plannable tasks like supporting a tutorial or a workshop were retained. In addition to that all SVs were told to stay near the SV lounge so that we could always find somebody for support. We also used a list so that students could leave their name and the event they currently attended, so that we could call them if needed. The high number of student volunteers allowed a task assigned with no heavy workloads, so that everybody could attend to some conference events.

The beginning of the week was the most busy time. Many events happend simultaneously and a lot of people were needed for registration. We could flatten the registration peak a little by opening the registration desk on Sunday. The workload on Thursday and Friday was quite low.

## Web Site

The web site of ECOOP 2003 was developed by the local organization committee with the help of some students. The site was hosted on a local server. We opened it quite early with a small amount of contents and added new contents like call for papers or the conference program as soon as they were available. To avoid browser incompatibilities we only used server-side code and no Javascript. Also we chose a layout which was informative but did make no use of the latest browser features. To secure the site, we set up a firewall with very restrictive access settings. Also, the underlying database was set up to listen to local connections only, so that nobody could get in from the outside. Because of warnings from previous organizers, we could avoid hacker attacks.

Information about the conference program, the workshops and tutorials were database driven. Updates in the database automatically updated the website and the registration application. Beside information on the conference program, we also put facts for travellers on the site which covered topics like sightseeing, accommodations and so on.

The website is still online with some photographs that were taken at the conference. You can find it under the following address: <http://www.st.informatik.tu-darmstadt.de:8080/ecoop/>

## Further Remarks

In comparison to 2002, we did not have an ECOOP quiz. The ECOOP 2002 organizers used it to

collect questionnaire results. This year we only asked participants to fill questionnaires in and bring them to the registration desk, but as will become clear in the next chapter, only a handful of participants did so.

Also, we did not have a special program for accompanying persons because we held it not to be necessary. We had social events on Monday, Wednesday and Thursday. Most participants left on Friday so that such an event could only have happened on Tuesday. But after all, one day without a social event gives participants the opportunity to go on a sightseeing tour, for example.

# QUESTIONNAIRE RESULT

To get feedback about the conference as well as suggestions for improvements, we distributed a questionnaire among all participants. The questionnaire was separated into three parts: the first part contained questions about the participant's profile (e.g. gender, age, or job). In the second part, participants could rate several conference aspects with values from “very good” to “very bad” or “N/A”. They also should rate the overall conference. The last part consisted of four open questions about what the participant most liked or disliked and about comments and suggestions. A sample of the questionnaire can be found in the Appendix.

Although questionnaires were distributed at preceding ECOOPs, and all participants were provided with a questionnaire in their conference bags, we received only 17 answers. The results are shown in the following diagrams and tables, but because of the minor count of questionnaires they are not very meaningful but show tendencies. However, the statements correspond with the oral feedback we received from many participants.

For future conferences, we suggest to ask to fill out the questionnaires in a break between two talks to get a better response or to encourage the participants in another way<sup>1</sup>.

## Profile related analysis

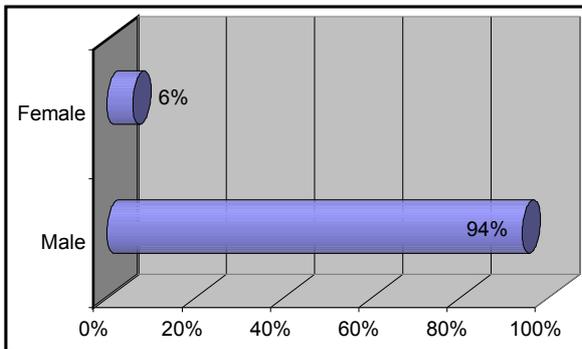


Figure 5 - Participants by gender

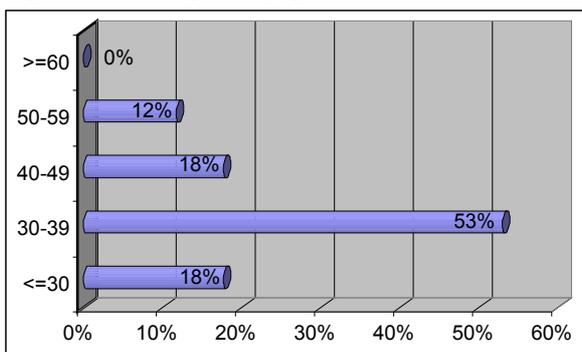


Figure 6 - Participants by age

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<sup>1</sup> At ECOOP 2002, there was a “ECOOP Quiz” and the participants had to provide the answer to the quiz together with the questionnaire.

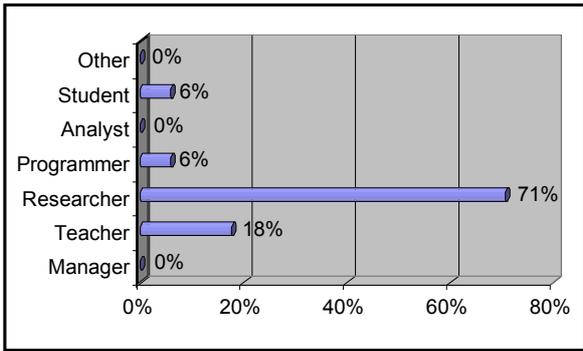


Figure 7 - Participants by occupation

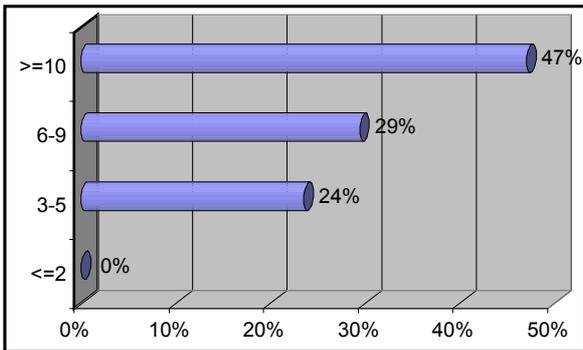


Figure 8 - Participants by OO experience (in years)

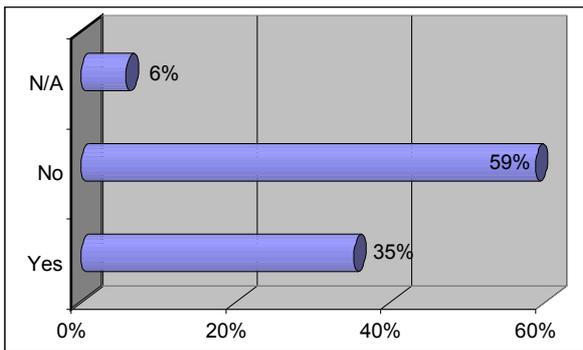


Figure 9 - Question: "Are you a regular ECOOP participant?"

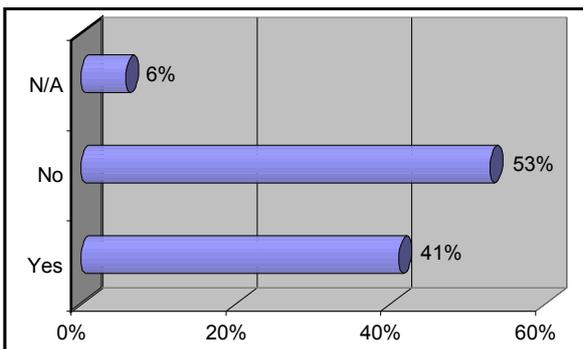


Figure 10 - Question: "Are you a first time participant?"

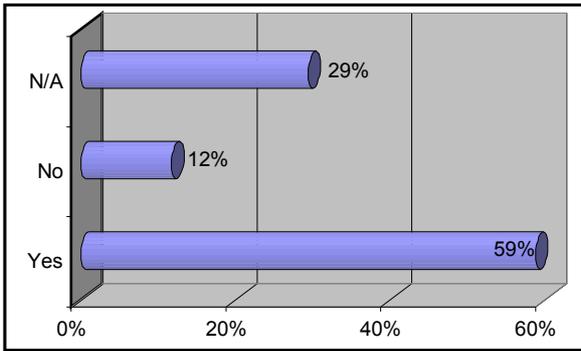


Figure 11 - Question: "Do you plan to attend ECOOP 2004?"

## Conference rating related analysis

Figure 8 shows the ratings of each part of the conference. Participants which rated a conference part with "N/A" are excluded in the specific question.

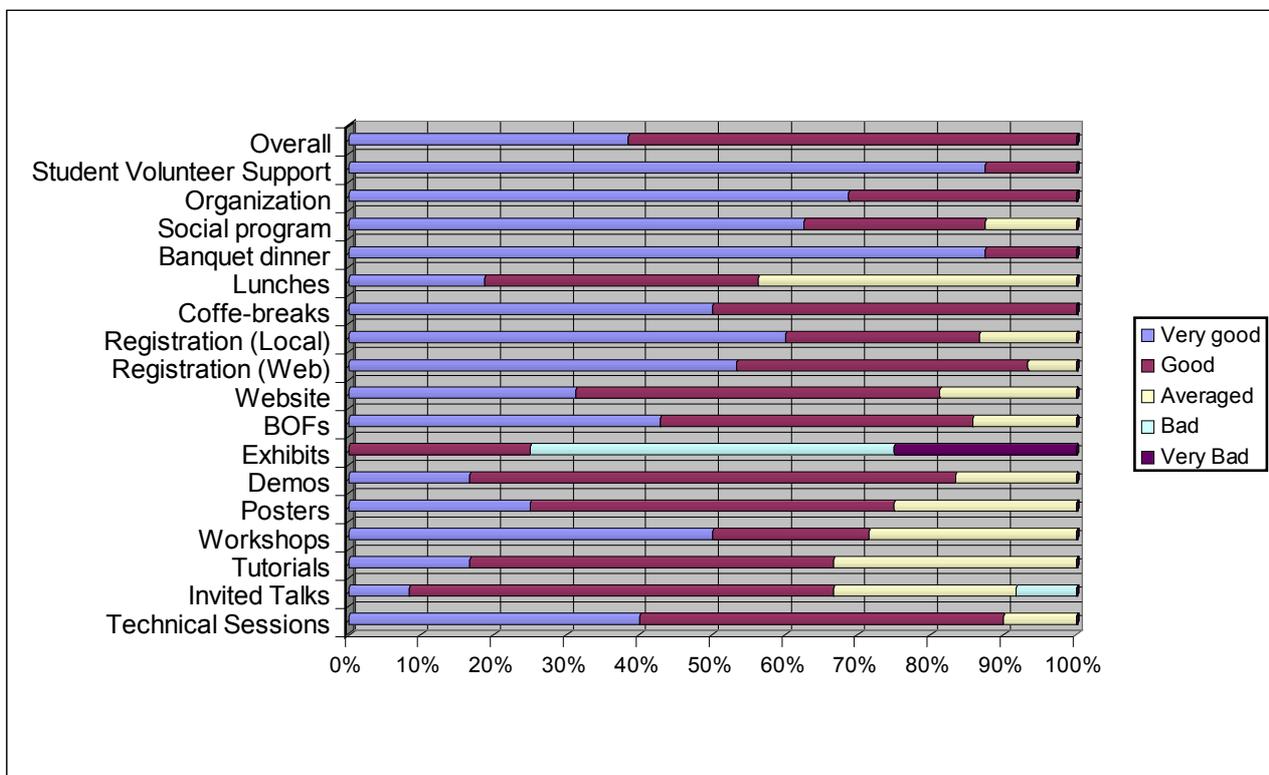


Figure 12 - Rating of the conference parts

## Feedback from open questions

In addition to the previous questions, we asked the following four open questions to let the participants express their opinion freely:

- What did you like most about ECOOP 2003?
- What did you dislike most about ECOOP 2003?
- What additional topics would you like to see?
- Do you have additional comments and suggestions?

The following tables show the answers to the questions including the number of occurrence. Some of the comments seem to agree the ratings, although some others contradict.

<b>Number of occurrence</b>	<b>Answer</b>
5	Organization and service
5	Talks (Invited talks and technical sessions)
5	Workshops (atmosphere and results)
3	Support from student volunteers
3	Meals and drinks
2	Welcome party
2	Tutorials
1	Overall atmosphere

Table 19 - Answers for question "What did you like most about ECOOP 2003?"

<b>Number of occurrence</b>	<b>Answer</b>
2	Price
2	Buildings
2	Food, no water without gas
1	No organized social program
1	Too few time between lunch and program
1	No city maps in advance downloadable
1	Date in holidays
1	Hotel would be better near conference
1	Information sheet slightly unstructured

Table 20 - Answers for question: "What did you dislike most about ECOOP 2003?"

<b>Number of occurrence</b>	<b>Answer</b>
1	Components
1	Architecture
1	Empirical evaluations, case studies
1	Tools
1	More specific OO issues

Table 21 - Answers for question: "What additional topics would you like to see?"

<b>Number of occurrence</b>	<b>Answer</b>
1	Enjoyed conference
1	Announce/ display start of session
1	Good to have all participants in 2 hotels
1	Panel should be more moderated with a result at the end

Table 22 - Answers for question: "Do you have additional comments and suggestions?"

# APPENDIX

## Questionnaire



## ECOOP 2003 Questionnaire

Please fill in this questionnaire to help us improve future ECOOP conferences. Once filled in, the questionnaire can be deposited into the designated boxes at the registration desk. Thank you!

### a) Your profile:

Sex:      Male       Female

Age:      <= 30       30-39       40-49       50-59       >= 60

Job:      Manager       Teacher       Researcher       Programmer       Analyst       Student

            Other [ \_\_\_\_\_ ]

Years of experience with OO:      <= 1       3-5       6-9       >= 10

Are you a regular ECOOP participant:      Yes       No

Are you a first time ECOOP participant:      Yes       No

Do you plan to attend ECOOP 2004:      Yes       No

### b) Please rate the following activities at ECOOP 2003:

Technical Sessions	Very good <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> very bad	N/A <input type="checkbox"/>
Invited Talks	Very good <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> very bad	N/A <input type="checkbox"/>
Tutorials	Very good <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> very bad	N/A <input type="checkbox"/>
Workshops	Very good <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> very bad	N/A <input type="checkbox"/>
Posters	Very good <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> very bad	N/A <input type="checkbox"/>
Demos	Very good <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> very bad	N/A <input type="checkbox"/>
Exhibits	Very good <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> very bad	N/A <input type="checkbox"/>
BOFs	Very good <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> very bad	N/A <input type="checkbox"/>
Web Site	Very good <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> very bad	N/A <input type="checkbox"/>
Registration (ECOOP Web Page)	Very good <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> very bad	N/A <input type="checkbox"/>
Registration (Local Office)	Very good <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> very bad	N/A <input type="checkbox"/>
Coffe-breaks	Very good <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> very bad	N/A <input type="checkbox"/>
Lunches	Very good <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> very bad	N/A <input type="checkbox"/>
Banquet dinner	Very good <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> very bad	N/A <input type="checkbox"/>
Social program	Very good <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> very bad	N/A <input type="checkbox"/>
Organization	Very good <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> very bad	N/A <input type="checkbox"/>
Student Volunteer Support	Very good <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> very bad	N/A <input type="checkbox"/>
_____	Very good <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> very bad	N/A <input type="checkbox"/>
_____	Very good <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> very bad	N/A <input type="checkbox"/>
<b>Overall rating</b>	Very good <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> very bad	N/A <input type="checkbox"/>

Figure 13 - Questionnaire (page 1)

**ECOOP 2003 Questionnaire**

**c) What did you like most about ECOOP 2003?**

**d) What did you dislike most about ECOOP 2003?**

**e) What additional topics would you like to see?**

**f) Additional comments and suggestions:**

**Thank you!**