



# EPAC, the Accelerator Conferences Series in Europe 1988-2008

Caterina Biscari
ALBA-CELLS





## 1<sup>st</sup> EPAC in Roma, Italy





Giorgio Brianti was behind the creation of EPAC.

CERN's Technical Director at that time, as Günther Plass and Kurt Hübner wererespectively OC and SPC Chairs. Sergio Tazzari from INFN completed the chairmen trio.

Main sponsors of EPAC'88: INFN, ENEA, CERN, DESY, SACLAY & GSI

Decision to hold it biannualy, in alternation with PAC, and rotating around Europe



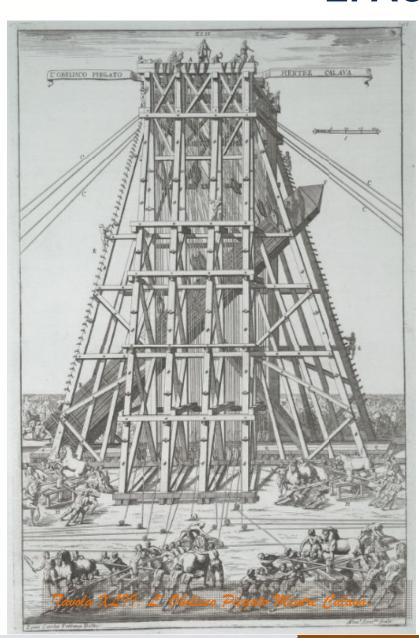






#### **EPAC 88 Poster**





#### Organized under the auspices of:

European Physical Society

ECFA European Committee for Future Accelerators

#### Sponsored by:

CERN European Laboratory for Particle Physics

Deutsches Elektronen Synchrotron

ENEA Comitato Nazionale per la Ricerca e per lo Sviluppo

dell'Energia Nucleare e delle Energie Alternative

INFN Istituto Nazionale di Fisica Nucleare

Laboratoire National Saturne LNS

Società Italiana di Fisica

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#### LOCAL ORGANIZING COMMITTEE

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Ch. Petit-Jean-Genaz, CERN, Geneva

G. Possanza, INFN, LNF-Frascati

A. Renieri, ENEA, Frascati

F. Tazzioli, INFN, LNF

The Vatican Obelisk: the first monumental obelisk raised in the modern period, the only Rome that has not fallen since Roman times. Brought to Rome by Caligula in 37 for the spina of the Vatican Circus . Moved by Pope Sixtus V in 1586 using a method developed by Domenico Fontana



# Images from the conference venue







# Images from the conference venue







## **EPAC 88 – Too much success**



Expected 300-400
participants
Arrived almost 700 (+
hundreds accompanying
persons)
Opening ceremony done
at Aula Magna Universita
La Sapienza

Then at Hotel Parco dei Principi, adding rooms with video conferences Lack of space, great enthusiasm and participation

Wonderful and insufficient dinner at Villa Tuscolana, on Frascati hills





#### a) General

Since the manufacture of this first EPAC could not be anticipated, the Hot space and facilities overwhelming attendance mit with respect to ilities, such as the closed-circuit TV in extra rented rooms, repeater screens in the main conference hall (because of its low ceiling), xerox and fax machines, registration area transport to select enced state cipants I

Scientific secretaries (students and young researchers): their role was not at all clear

the

#### 13. ACKNOWLEDGEMENTS

Hoping not to have omitted any important element of the organization of EPAC 1988 and that due credit has gone to all those whose efforts went to make it thanks to Enjoyable and rewarding experience the acquaintance of the OC members and attending the meetings, pioneering the very first EPAC experience it has been to make the acquaintance of the members of the Organizing Committee and to have had the privilege of attending its meetings, pioneering the very first EPAC.



# Starting with Emilio Picasso on LEP 9





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THE LEP PROJECT

E. PICASSO

European Organization for Nuclear Research CERN, CH-1211-Geneva 23, Switzerland

#### Introduction

We foresee that LEP operation will begin in

sectors have been fully commissioned; this consists of bakeout of the vacuum chamber at 150°C for 24 hours (superheated water system), followed by activation of

for 45 minutes). Three leaks ctor and obliged us to carry out keout and activation) once again. ioned were in the low  $10^{-11}$  Torr pumping. Present vacuum readings orr to  $1.10^{-11}$  Torr. Commissioning tor is scheduled for June.

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#### THE LARGE HADRON COLLIDER (LHC) IN THE LEP TUNNEL

by the LHC Working Group reported by G. Brianti CERN - European Organization for Nuclear Research Geneva, Switzerland

#### Introduction

The installation of a second collider in the LEP tunnel was envisaged since the very beginning of the project in 1981. In 1984 a feasibility study, successively refined and improved, has shown the possibility of producing proton-proton collisions with an energy of 16 Tev and electron-proton collisions with an energy up to 1.8 Tev in the center of mass.

A ring of superconducting twin aperture magnets can be installed above LEP. The existing CERN chain of accelerators, Linacs, Booster, PS and SPS, which is already the injector of LEP, will also become the injector for LHC. As the SPS has already

#### Table I Discovery limits (TeV/cm<sup>2</sup>)

Physics			Luminosity (cm <sup>-2</sup> s <sup>-1</sup> )		
				10 <sup>33</sup>	5.1034
Higgs	$H \to ZZ$	-	$\mu^+\mu^-\mu^+\mu^-$	-	0.7
		-	1+1-1+1-	0.3	0.8
			$l^+l^-\nu\bar{\nu}$	0.6	0.6
l	$H\to WW$		lvii + aater	0.8	x

# Giorgio Brianti's paper on LHC (LHC was presented one year before at PAC)

electron-proton collisions.

#### is of the RF System

phase RF system consists of 128 s, each composed of 5 elementary will be installed in areas 2 and either side of the interaction lerating cavity is coupled to a nose unloaded Q factor is higher of the accelerating cavity; the oresonators reduces the electricitout 40%. All the cavities have CERN.

n of one side of point 2 is F units with 32 cavities and four ently being commissioned. Both perated at their nominal power of iving a total accelerating voltage peration of both stations from the been demonstrated.



# Ending with Carlo Rubbia on HEP Future



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#### THE 'FUTURE' IN HIGH-ENERGY PHYSICS

Carlo Rubbia CERN, Geneva, Switzerland

Introduction

at least three families. How many are they in total? Rabi used to make

Table A.1
Comparison between several LHC options and the SSC design report

	LHC	LHC high luminosity			SSC	
Beam energy (TeV)	8.0	8.0	8.0	8.0	20.0	
Protons per bunch (10 <sup>11</sup> )	0.26	0.30	0.64	1.00	0.073	
Bunch spacing (ns)	25.0	15.0	15.0	15.0	16.0	
Invariant transverse emittance (\pimrad \cdot mm)	5.0	7.0	11.0	15.0	4.0	
Beam-beam tune shift (10 <sup>-3</sup> )	2.5	2.2	2.9	3.4	0.8	
Synchrotron power (kW)	4.0	7.0	14.0	21.0	18.2	
Stored beam energy (MJ)	117.0	208.0	416.0	624.0	405.0	
Luminosity (cm <sup>-2</sup> s <sup>-1</sup> )	$1.4 \times 10^{33}$	$8.2 \times 10^{33}$	$2.4 \times 10^{34}$	$4.0 \times 10^{34}$	$1.0 \times 10^{33}$	

theoretical progress of the last decades, elementary particle physics remains primarily a field driven by experimental discoveries. The 'theory of everything' is not yet for tomorrow! to this word today - must extend.

The energy of LEP 1 will be about twice that of other e<sup>+</sup>e<sup>-</sup> storage rings. Therefore it is possible that new production thresholds

#### COMMENTS ON THE CONFERENCE



The first European Particle Accelerator Conference (EPAC 1988) was held in Rome, Italy, from the 7th to the 11th of June, 1988. The idea to establish a series of accelerator conferences in Europe, latent for several years, materialized due to the strong encouragement and support it received from the European Physical Society High Energy and Particle Physics Board, chaired by R.Salmeron, and from the European Committee for Future Accelerator (ECFA), chaired by J.Sacton. The EPAC Conferences will be held every second year, in the spring of the even numbered years, so as to be interleaved with the Particle Accelerator Conferences held in North America in the odd numbered years. The Organizing Committee has decided, in a meeting held during the Rome Conference, that the second will take place in Nice, France, from the 11th to the 16th of June, 1990.

The organization of this first edition was made possible by the generous sponsorship of INFN (Istituto Nazionale di Fisica Nucleare), ENEA (Comitato Nazionale per l'Energia Nucleare e le Energie Alternative), CERN (European Organization for High Energy Physics ), DESY (Deutsches Electronen Synchrotron), the Saturne Laboratory in Saclay and GSI (Gesellschaft für Schwerionenforschung Darmstadt).

The Organizing Committee was overwhelmed with the response to its invitation. Six hundred and seventy-one participants coming from 25 individual countries, nearly a factor of two up with respect to the estimates, attended the conference. The high number of non-European participants (about 150) and the large number of institutions in Europe where accelerators are under development or in operation were the contributing factors to this success.

The Conference opened with an address from the Italian Science Minister Antonio Ruberti who spoke of international scientific collaboration and whose encouraging remarks were much appreciated by all. The opening and closing sessions were held at the Aula Magna of the "La Sapienza" University of Rome, in itself an inspiring experience for all present.

The scientific programme of EPAC 1988 consisted of four and a half days of plenary programme, with a total of more than 500 contributions. Of these 38 were invited papers, 33 contributed papers and 50 oral summaries of poster presentations. In addition, an average of 110 posters were presented each afternoon. The programme was so full that it may be necessary, for future Conferences, to consider including some parallel sessions.

An industrial exibition was also annexed to the Conference and received much attention from the participants.

A word on the layout of the Proceedings. The invited and contributed papers accepted for oral presentation appear in the Proceedings according to the sequence followed during the Conference. Papers presented as posters and post-deadline papers follow; they have been grouped according to

the classification by topic given by the Programme Committee. Since during the Conference papers on different topics were presented during a same Poster Session, there is not complete agreement between the Programme Booklet and the Proceedings.

Major credit for bringing about the European Particle Accelerator Conference and for the success of its first edition goes to Günther Plass and Kurt Hübner, Chairmen of the Organizing Committee and the Programme Sub-Committee respectively. All members of the International Advisory Committee, the Organizing Committee and the Programme Sub-Committee also contributed considerable effort to the planning, as did the members of the Local Organizing Commi

#### Christine Petit-Jean-Genaz a", Professor Giuseppe

The Conference Banquet, held in the grounds of the Villa Tuscolana, one of the ancient stately mansions in the hills around Frascati made available through the kindness of the Director of the Ministry of Interior Administration School, was a most enjoyable occasion.

Special thanks are due to Christine Petit-Jean-Genaz and Silvia Giromini who expertly managed all aspects of the organization, including the social programme; Dolores Federici and Ferdinando Pacciani efficiently and competently managed the administration, Maria Fiorini was the editor of the Abstracts Booklet, Michele Barone and Pina Possanza were in charge of the Industrial Exibition and largely responsible for its success, Orlando Ciaffoni and Massimo Pistoni organized the much used computer links to the Conference site, Guido Bernardi and Patrizio Panattoni efficiently supervised all technical aspects and finally Luigina Invidia organized and ably carried out the editorial work needed to prepare the Proceedings for printing. The proceedings are in the familiar IEEE format and the help of the IEEE in preparing the author's kits is acknowledged here, with special thanks to Ted Gerlach.

My thanks also go to the many others whose dedicated efforts were instrumental to the success of the meeting and that I had no opportunity to personally thank.

Sergio Tazzari, LOC Chair

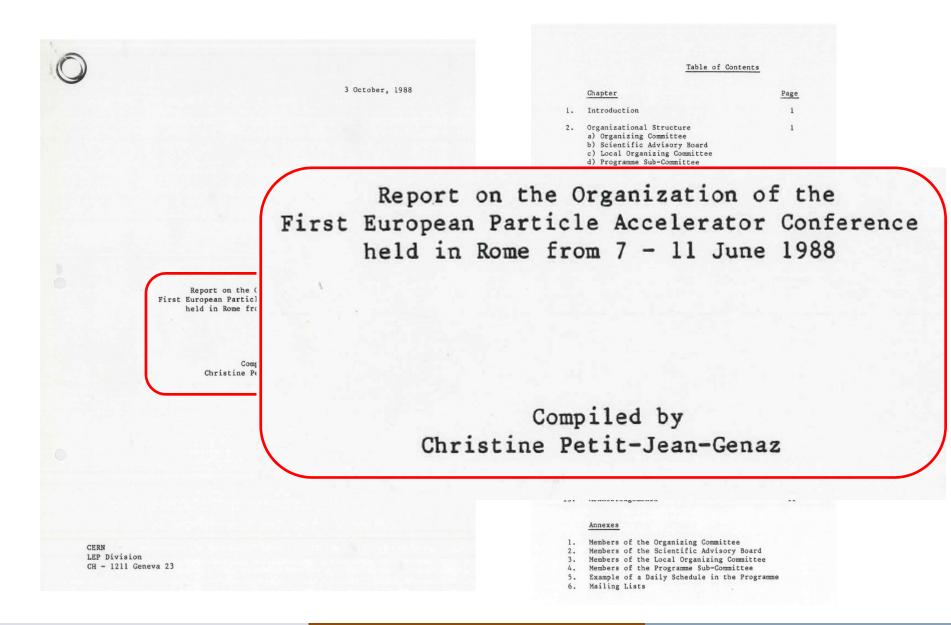
Sergio Tazzari Chairman of the Local Organizing Committee

Talamo.



## Reports from each Conference







## 1989 - EPS-IGA Group created



Between the first and the second EPAC the EPS was approached and an Interdivisional Group on Accelerator was created.

The EPAC OC chair was the chair of the group Later on it became the EPAC-AG group, fully involved in EPS activities

Nowadays the OC Chair mandate is three year, starting from the closing of the previous European IPAC conference until the closing of the conference which he/she organizes.



Enter search criteria...









# **Committe Structure with EPS-IAG**

The Organizing Committe chair is the chair of EPS-IAG. All members are EPS members

The Scientific Organizing Committe is a sub-committee of SPC

The Local Comiittee is linked to the conference

One of the EPAC OC members has recently been invited to become a member of the American PAC Organizing Committee thus ensuring a valuable link between the two conferences. A reciprocating gesture would need to be discussed by the OC and possibly formalized for the future.

# Start of student grant program

25 students in 1990, has been supporting students (~ 400 in total), with constant involvement of European accelerator-based laboratories



# 1<sup>st</sup> Classification of papers for EPAC proposed



 It has been shared with sister conferences, and evolving together with the field, with the contribution of the Organizing Committees of the three regions

		CI ACCIDICATION OF PARENCE POR
		CLASSIFICATION OF PAPERS FOR EPAC 92
A	celer	ators and Storage Rings
A	01	High-Energy Particle Accelerators and Colliders
	02	Low- and Intermediate-Energy Circular Accelerators and Storage Rings
	03	Synchrotron Radiation Facilities
	04	Electrostatic Accelerators
	05	Linear Accelerators
A	06	Advanced Techniques and New Ideas
A	07	FEL, IFEL, etc.
Su	bsys	tems, Technology and Components
T	01	Particle Sources (including Polarized Sources)
T	02	Beam Diagnostic Instrumentation and Feed-back Systems
T	03	Accelerator/Storage Ring Control Systems
T	04	RF Systems and Components
T	05	RF Resonators
T	06	Room-Temperature Magnets
	07	Superconducting Magnets
	08	Power Converters
	09	Beam Injection/Ejection
	10	Beam Transport and Targetry
	11	Cryogenics
	12	Vacuum Technology
	13	Pulsed Power Technology
	14	Alignment and Survey
	15	Radiation Monitoring and Safety
T	16	Subsystems, Technology and Components, Other
Be	am D	ynamics and Electro-magnetic Fields
D	01	Linear and Nonlinear Orbit Theory, Theory and Measurement
	02	High Current Dynamics, Beam Instabilities and Cures
	03	Beam Cooling
	04	Injection/Ejection Orbit Theory
D	05	Electro-magnetic Field Calculations and Measurements
D	06	Beam Dynamics, Other
Ap	plica	tions of Accelerators
	01	Accelerators for Medical Applications
U	02	Icotomo Duodustion
U	03 04	Synchrotron Radiation Sources for Industrial Applications
U	04	Accelerators for Industrial Applications
U	05	Special Accelerators for Other Applications







#### **EPS-AG Prizes**



- Awarded to a physicist or engineer in the early part of the career, who has made a recent and original contribution to the field of particle accelerators.
- Evolved afterwards up to 4 prizes, awarded always in coincidence with the conference





The first two winners: Hakan Danared and Igor Syratchev





# 1<sup>st</sup> Electronic Proceeding Publication (9)



#### PREFACE

The fifth European Particle Accelerator Conference, EPAC'96, took place at the Meliá Gran Sitges Hotel from Monday to Friday, 10 to 14 June 1996. It was organized by the Universitat Autonoma de Barcelona and was attended by 762 participants from 26 countries. As in previous conferences of the series a special effort was made to support the attendance of young and Eastern European scientists. With the partial sponsorship of the European Union, the participation of 28 young scientists was supported and the following laboratories and institutions helped the attendance of 41 East Europeans: BESSY, CCL, CEA-DSM, CEE-IRMM, CERN, DESY, ESRF, GSI, HMI, INFN-LNF, KFA, MSI and PSI. The travel expenses of the Russian delegates were covered by the Russian Academy of Sciences.

EPAC'96 was held under the auspices of the European Physical Society Interdivisional Group on Accelerators (EPS-IGA) and was supported by the following Spanish organizations: CICYT, CIRIT, CSIC, DGICYT, Universitat Autonoma de Barcelona, Universitat de Barcelona and Universitat Politecnica de Catalunya. Additional support was received from Caixa de Catalunya, Diputació de Barcelona, Oxford Instruments and Silicon Graphics. My thanks to all the conference sponsors.

The conference was opened by Joan Albaiges, Comissionat per a Universitats i Recerca of the Generalitat de Catalunya, Pere Junyent, Mayor of Sitges, Michel Olivier, Chairman of the EPAC'96 Organizing Committee, Santiago Lago, Subdirector General de Investigación of the Spanish Government, and Joan Uriach, President of the Social Council of the Universitat Autonoma de Barcelona. The opening lecture was given by Yves Petroff, General Director of the ESRF, and the closing lecture by Enrique Fernàndez. Director of the High Energy Physics Institute of



ideal atmosphere for 15 small meetings of specialized groups. For the first time in the EPAC series it was decided to publish the conference proceedings both on paper and on CD-Rom. Thanks to the hard work of John Poole, Andreu Pacheco, Christine Petit-Jean-Genaz and other collaborators, all of the electronic files of contributions were successfully processed during the conference and all authors could be informed of the result. A special room with 12 computer terminals allowed participants to connect with their home institute's computers.

Prizes were awarded on the first day of the conference. The prize for a young physicist or engineer who has made a significant, original contribution to the accelerator field within the last six years was awarded to Professor J.S. Hangst from the University of Aarhus for his work on bunched beam laser cooling and diagnostics. The prize for an individual or group of individuals demonstrating achievement and innovation in the accelerator field since the commencement of EPAC in 1988, without age limit, was awarded to Professor R.D. Kohaupt and his collaborators from DESY, for work on the theory of multibunch longitudinal and transverse feedback systems, development of multibunch systems using digital techniques, its verification at various DESY machines, and its wide significance for future machines.

In parallel with the last day of the industrial exhibition and following the tradition of the EPAC conferences a special seminar for industry was organized under the chairmanship of Dewi Lewis. The conference also provided an ideal atmosphere for 15 small meetings of specialized groups. For the first time in the EPAC series it was decided to publish the conference proceedings both on paper and on CD-Rom. Thanks to the hard work of John Poole, Andreu Pacheco, Christine Petit-Jean-Genaz and other collaborators, all of the electronic files of contributions were successfully processed during the conference and all authors could be informed of the result. A special room with

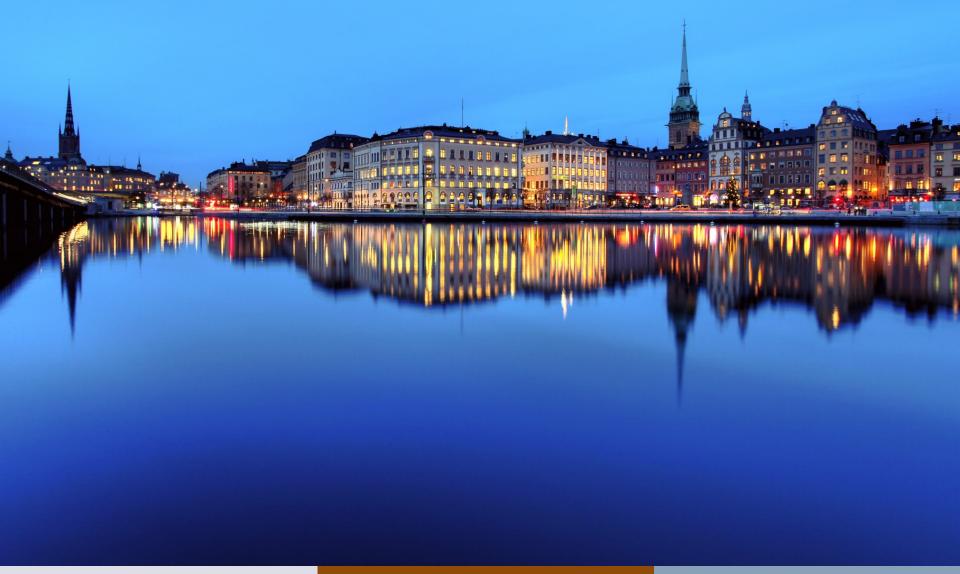
I would like to thank the members of the different committees who helped the success of the conference, from the members of the Organizing Committee, chaired by Michel Olivier, to the Programme Sub-Committee, chaired by Steve Myers, and the Local Organizing Committee. Thanks are due to the members of the Synchrotron Laboratory of Barcelona, and especially to the Conference Secretary Miriam Raventos. Finally I want to express my gratitude to our Executive Secretary Christine Petit-Jean-Genaz, whose help would make the life of any conference organizer easy; and finally to all the participants who contributed to the success of the conference.

Ramon Pascual

Chairman of the EPAC'96 Local Organizing Committee



### Stockholm, Sweden, 1998





# 1st WEB Abstract Submission through CERN



#### Call for Papers

The Call for Papers was announced on the Poster and in the 1st Announcement, mailed in September 1997. The deadline for receipt of Abstracts at the Scientific Secretariat was 9 January 1998.

#### Submission of Abstracts

The instructions for the submission of abstracts announced in the 1st Announcement are reproduced in Annex 25. They were accessible via the Web at

http://www.cern.ch/epac/stockholm/EPAC98/ScientificProgramme/SubAbstracts.html/

The Web instructions are reproduced in Annex 26. They were linked, for the first time, to a Web Abstract Submission Form (Annex 27)

# 1st time PACCC meets at EPAC APAC – EPAC – PAC Chairs (past, present and future) Seed of IPAC





# 1<sup>st</sup> indipendent website



#### Website

The LOC decided that the Conference Home Page should be located physically at LAL and a preliminary version was set up some time towards the end of the summer of 2001:

http://epac2002.lal.in2p3.fr/







## SPMS is here:

Scientific Programme Management System (SPMS)

The management of contributions to the scientific programme was handled entirely via the SPMS, see <a href="http://accelconf.web.cern.ch/AccelConf/">http://accelconf.web.cern.ch/AccelConf/</a>, developed by the Joint Accelerator Conferences Website Collaboration (JACoW) between PAC'03 and EPAC'04.

# Booklet for industries on Future Accelerator Projects PACCC

#### 1.5. FUTURE ACCELERATOR PROJECTS

Based on the result of a questionnaire distributed to the exhibitors present at EPAC'92 in Berlin, it was decided to try to provide the accelerator industry with information concerning future accelerator projects and/or upgrades. The Conference Coordinator has since that time, prior to each EPAC conference, approached major accelerator laboratories to ask for a contact person to be named and for information to be supplied concerning the above. Regrettably this exercise could not be carried out during 2002 or 2004 due to the Executive Secretary's heavy workload. It is hoped that





# Awarding with the EPS-AG medal Chairs and key people





Mercurius, God of velocity

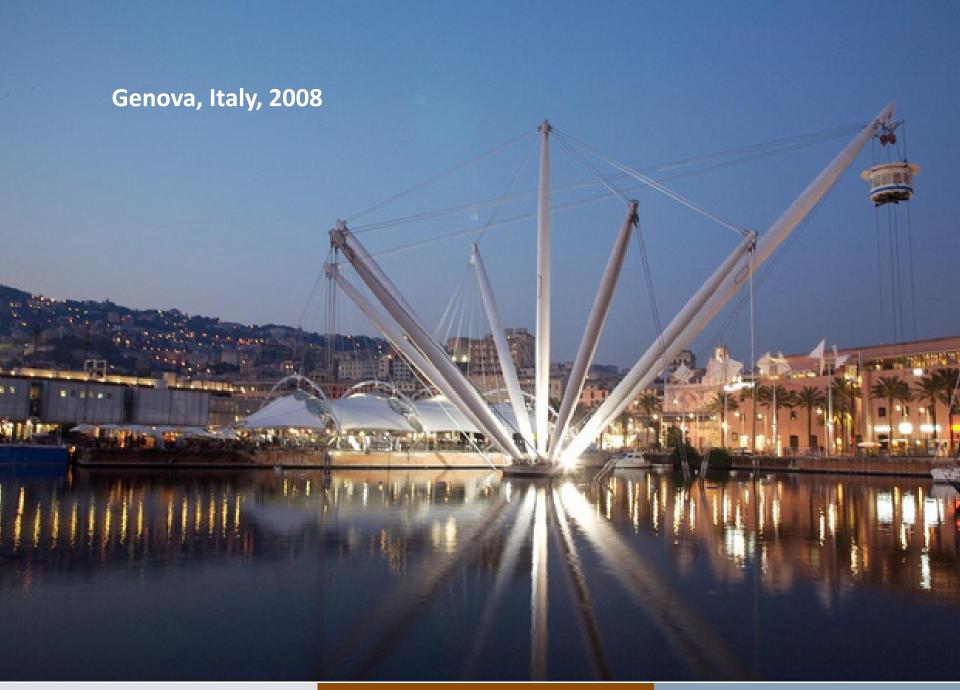
IPAC 15













# Naming the EPS-AG Prizes after Accelerator Physicist

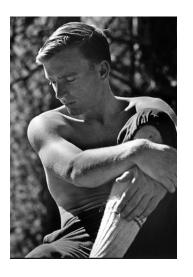


The Rolf Wideröe Prize for "outstanding work in the accelerator field without age limit" The Gersch Budker Prize, for "a recent significant, original contribution to the accelerator field, with no age limit

The Frank Sacherer Prize, for "an individual in the early part of his or her career, having made a recent significant, original contribution to the accelerator field,"







The Bruno Touschek Prize will be granted to young student from IPAC 17 on





## Last talk of EPAC series





# Present and Future of High Energy Physics

Hitoshi Murayama (IPMU Tokyo, Berkeley) EPAC 2008, Genoa, Italy June 27, 2008

#### Conclusions

- Accelerators will remain critical drivers for particle physics research
- Firm case for LHC & ILC followup
- Good reasons to except more excitement, likely to need to go multi TeV scales
  dark matter, beyond Higgs, hierarchy
- o Need high intensity neutrinos
- need to study consequences of new particles on flavor physics





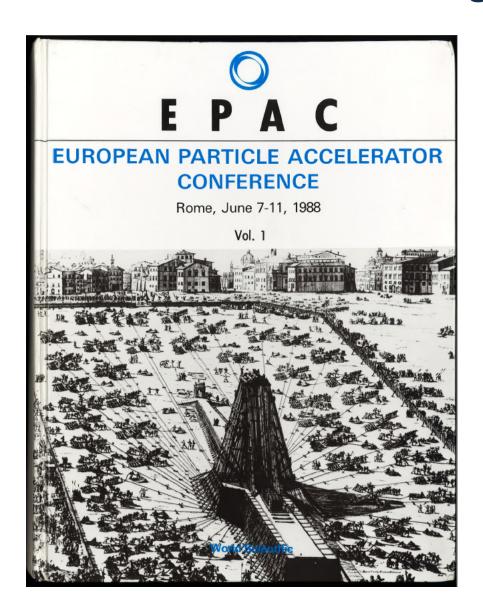


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## **Proceedings Books**





1988: Two volumes

1990: Three volumes

1992: Two volumes

When reaching four volumes -> CDs

1988 through 1994 Proceedings scanned

and available on JACoW

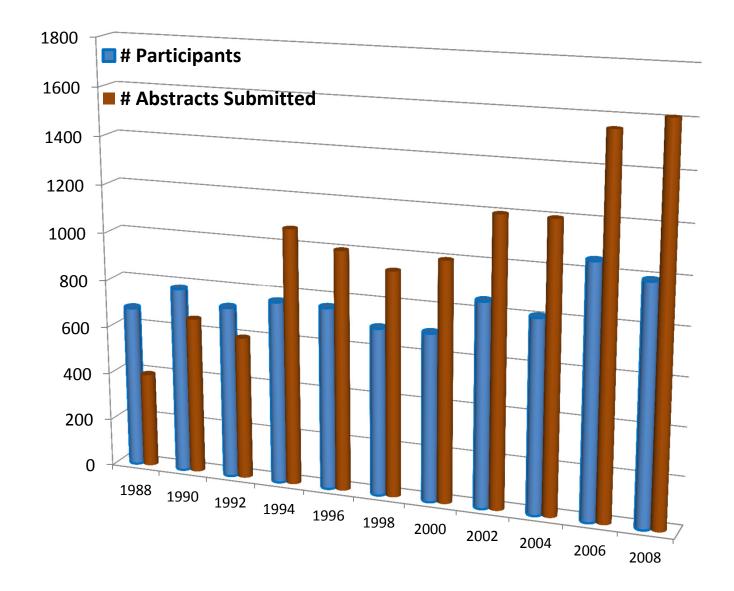
Since 2006: no more printed copies, only

**CDs** 



# **Evolution of participation**

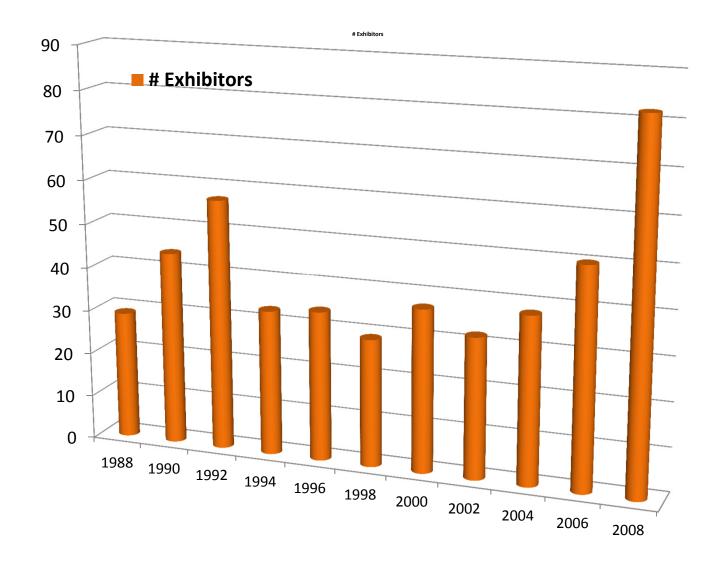






#### **Industrial exhibitions**







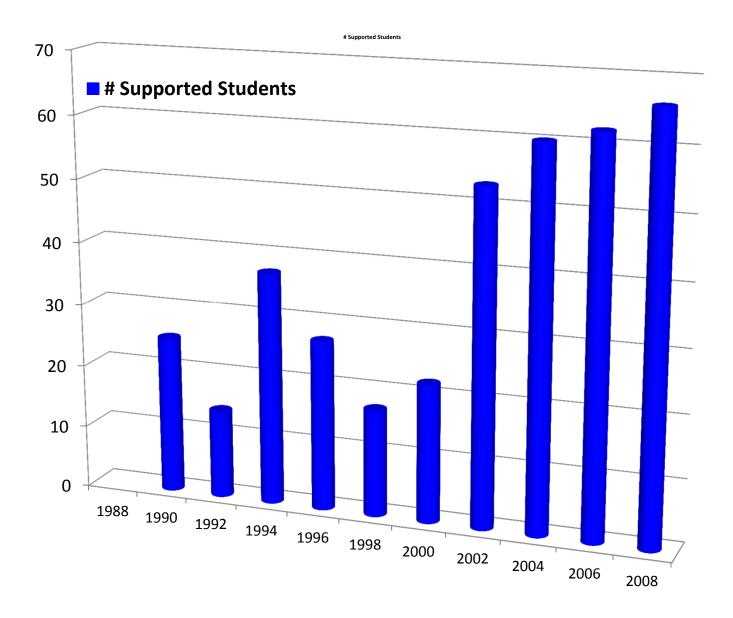






#### **Student Grants**







#### **Black and white photos**



EPAC 1990 Photos

EPAC 1992 Photos

1 | 2 | Home

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Home























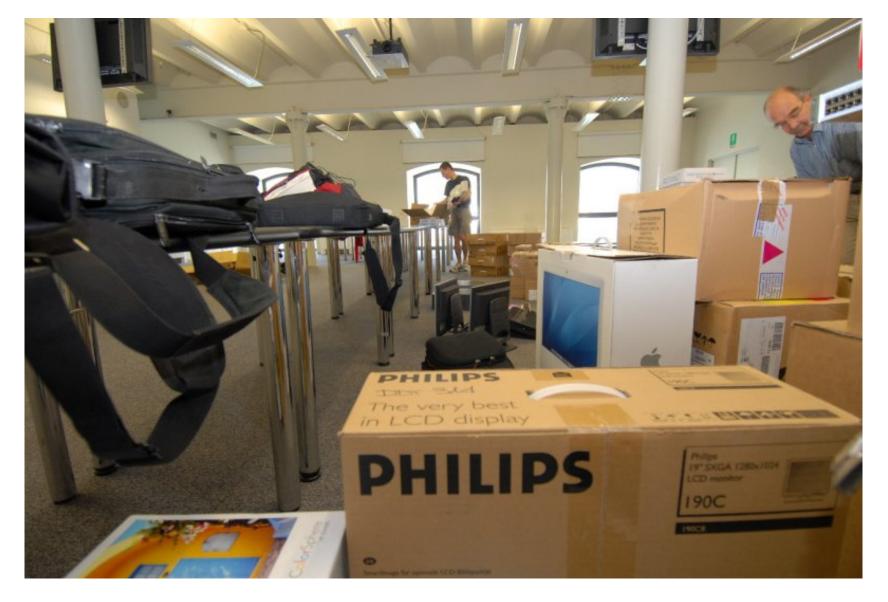


1 | 2 | Home



## Hard work in setting up the venues O IPAC15





IPAC 15



#### And during the conference







#### Music





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#### Sight seeing

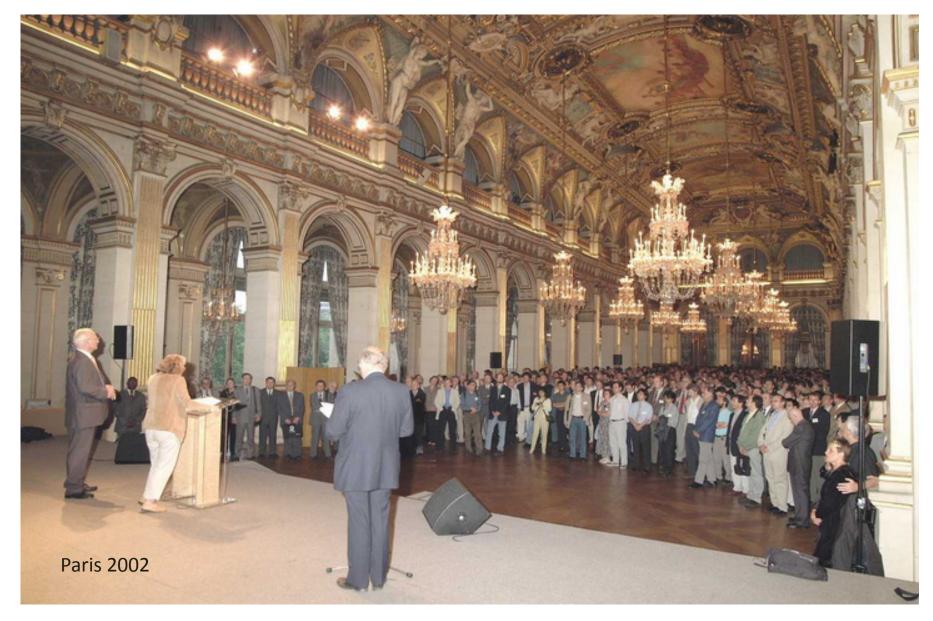






#### Official welcomes







#### **Good food and drinks**







# ... but specially people during the talks

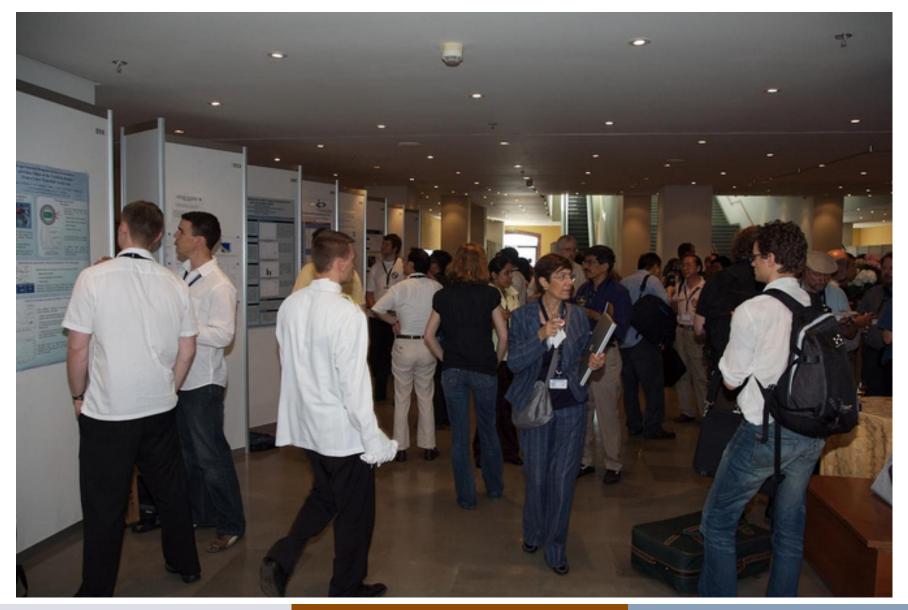






#### And during the poster sessions



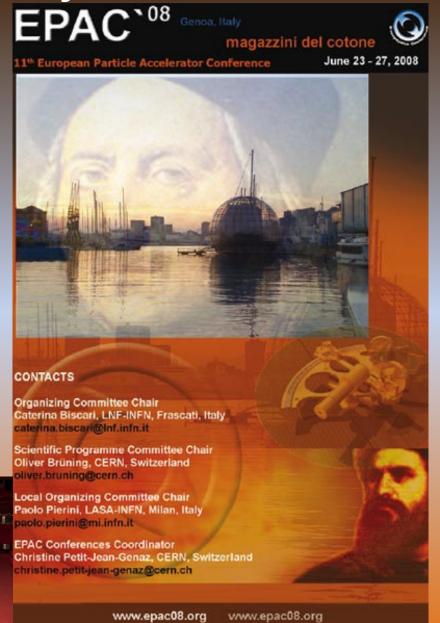




# The story ends in 2008 in Genova EPAC 108 consultations



Cristoforo
Colombo looking
towards America



Marco Polo looking towards Asia



#### The evolution to IPAC



And thus the biennial EPAC series comes to an end, giving way to an international series composed of three regional conferences each on a 3-year cycle. The first IPAC will take place in Kyoto (24-28 May 2010), followed by Spain (September 2011), and New Orleans (Spring 2012). We are convinced that the collaboration between the three regions, which has been steadily enhanced in recent years, will continue to grow to the benefit of IPAC and of the accelerator community as a whole.

Caterina Biscari, Chair of the EPS-AG and the EPAC'08 Organizing Committee









#### **Success stories**



### Communication in the world community and the industrial partners Crowded and lively poster sessions JACoW

Student grant program

EPS-AG creation and development

Team building

Great physics and

Evolution to IPAC series

Year	City	OC Chair	SPC Chair	LOC Chair
1988	Roma	Guenther Plass	Kurt Hubner	Sergio Tazzari
1990	Nice	Guenther Plass	Kurt Hubner	Pierre Mandrillon
1992	Berlin	Guenther Plass	Klein	Heino Henke
1994	London	Michel Olivier	Klein	lan Gardner
1996	Sitges	Michel Olivier	Steve Myers	Ramon Pascual
1998	Stockholm	Sergio Tazzari	Steve Myers	Karl-Gunnar Rensfeld
2000	Vienna	Steve Myers	Jean L. Laclare	Meinhard Regler
2002	Paris	Jean L. Laclare	Lenny Rivkin	Joel Le Duff
2004	Lucerne	Lenny Rivkin	Chris Prior	Hans-Arno Synal
2006	Edinburgh	Chris Prior	Caterina Biscari	John Thomason
2008	Genova	Caterina Biscari	Andrej Wolski	Paolo Pierini

## **EPAC thanks Christine Petit-Jean-Genaz**



