



**International Europhysics Conference
on High Energy Physics
HEP 2003**

17 - 23 July 2003 Aachen (Germany)

BULLETIN 1

DESCRIPTION OF THE CONFERENCE

The International Europhysics Conference on High Energy Physics, HEP 2003, will be held in Aachen, Germany on July 17-23, 2003. It belongs to the series in which the two most recent previous conferences were held in Budapest 2001 and in Tampere 1999. The conference will consist of poster sessions, parallel sessions and plenary sessions. The first three days (starting Thursday) are reserved for the parallel sessions followed, after a break reserved for excursions, by three days of plenary talks starting Monday, July 21. The opening ceremony with the presentation of the 2003 High Energy Particle Physics Prize of the European Physical Society will be held Monday, July 21. In addition the Prize for Young Particle Physicists, The Gribov Medal honouring a young theoretical particle physicist and the Outreach Prize for the best popularisation of particle physics discoveries will be awarded during the opening session.

The conference is organised by the High Energy and Particle Physics Division of the European Physical Society and it is supported by the Human Potential Programme of the European Commission, the University of Aachen (RWTH Aachen, where "RWTH" stands for Rheinisch Westfälische Technische Hochschule), the Friends of the University (Pro RWTH) and the Department of Physics at the University of Aachen.

Participation is only possible after successful registration. Scientists refused by the conference organisers may appeal to their national contact persons in order to obtain an invitation. The list of the contact persons with their addresses is available on the web pages of the conference (see below). The Local Organising Committee (LOC) will do its best to accommodate qualified scientists beyond their national quotas.

CONTACT INFORMATION

Contact address:

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PRELIMINARY SCIENTIFIC PROGRAMME

The conference involves plenary sessions, parallel sessions and poster sessions. The first three days are reserved for parallel sessions, on Sunday there are excursions, and the last three days are reserved for plenary talks.

Plenary sessions:

1. Opening
2. Prize winners session
3. Outstanding new results
4. Tests of Standard Model (exp)
5. Physics beyond Standard Model (th)
6. Searches for new particles (exp)
7. String theory
8. Non-perturbative field theory (lattice)
9. Extra dimensions
10. Hard QCD (exp)
11. Neutrino physics (exp)
12. Neutrino physics (th)
13. Flavour physics (exp)
14. CP violation and flavour physics (th)
15. CP violation (exp)
16. Particle astrophysics (exp)
17. Cosmology (th)
18. Data handling
19. Detector development
20. Accelerator R & D
21. Heavy Ion physics (exp)
22. Conference summary

Parallel sessions:

1. Particle Astrophysics (dark matter)
2. Particle Astrophysics (high energy cosmic radiation)

3. Rare decays
4. Hard QCD
5. Hadronic physics (diffraction etc.)
6. High energy nuclear physics
7. Neutrino properties and oscillations
8. Non-perturbative field theory
9. String theory and extra dimensions
10. Heavy flavour physics
11. Tests of the Standard Model
12. CP violation
13. Physics beyond the Standard Model (exp., phenomenology, new ideas)
14. Detectors and data handling
15. Opportunities and new developments in accelerator physics

The list of the names of plenary speakers and parallel session convenors will be announced on the conference web pages when confirmed. The programme of each parallel session is organised by the session convenors. Session convenors compose the programme of parallel sessions on the basis of the list of submitted abstracts. They are encouraged to call for papers, organise mini-reviews, etc.

Poster session:

Poster sessions are planned, especially to give young scientists a chance to present their results. Posters will be selected by the parallel session convenors. The poster sessions will take place during coffee breaks on the last two days of the conference and in an evening session on July 22. Details will be given on the conference web pages.

SUBMISSION OF ABSTRACTS

Experimental collaborations and participants willing to contribute to the scientific programme of the conference are invited to submit abstracts. Abstracts should be submitted using the web-form on the web pages of the conference not later than May 4, 2003. Abstracts will be available on the web soon after the submission deadline. Requests for the presentation of posters should be sent until June 15 by e-mail.

SUBMISSION OF CONTRIBUTED PAPERS

Contributed papers should be sent electronically to the mail address of the conference. In case you cannot use e-mail please send two hard copies to the conference secretary at the address given above. The deadline for submitted papers is June 15, 2003. Submitted papers will be accessible electronically during and after the conference.

PROCEEDINGS

Plenary talks and oral presentations in parallel sessions will appear in the proceedings of the conference, which will be published electronically by Springer Verlag in “The European Physical Journal C” as a special volume in EPJdirectC. Instructions for preparing the

manuscripts will be available on the web page of the conference in due time. The papers will be reviewed by the editors of the journal. The deadline for submission is October 15, 2003.

TALKS ON THE WEB

The transparencies of the talks in the plenary and the parallel sessions will be available on the web. Speakers are strongly encouraged to provide an electronic version of their talk at least in the pdf file format. Other usual formats (ps, ppt) are also welcome. Scanning of the transparencies will certainly delay the publication on the web.

CONFERENCE VENUE

The conference venue is the Karman auditorium of the university, which is situated close to the city centre at the address

Karman Forum
Eilfschornsteinstr. 15
D-52062 Aachen, Germany

All lecture rooms are equipped with overhead projectors and beamers. The auditorium will also house computer rooms reserved for the participants in order to read their e-mail etc. In addition there will be wireless access points installed, to support those participants who bring along their own electronic notebook. Again details will be given on the web pages of the conference.

The name Aachen stems from Roman times. The Roman name, *aquis grana*, means salty water and has been modified through the centuries. Aachen was selected as residence by the emperor Charlemagne in the ninth century. Today it has 250,000 residents and is a medium-sized town with a historic centre. The cultural programmes and social activities reflect the large young population (approx. 40,000 students) of the city. There is a wide choice of musical, theatrical, and literary events and a lively formal and informal arts scene.

Aachen is the most western town in Germany. The city border is the border of the republic as well. The closest French-speaking community lives seven kilometres away from the city centre, the closest Dutch one only four. Aachen has many long-standing cultural and economic relations with the neighbouring communities in Belgium and the Netherlands. Liège and Maastricht, both on the river Meuse (or Maas), form together with Aachen a triangle of cities which makes up what is called the Euregio Rhein-Maas, not forgetting Eupen, the capital of the small German-speaking Belgian community, which is situated 20 kilometres away from Aachen in the beautiful countryside of the Ardennes.

WEATHER

The Aachen climate in July is mild, which is typical for this part of Europe. The average midday temperature at this time of the year is 22-26 degree Celsius and will occasionally reach 30 C°. It has to be said, however, that it can rain quite often in July. Not accidentally, Aachen was a centre of the German umbrella industry.

REGISTRATION

Interested scientists are requested to register to the conference by internet using the www-registration form to be found on the web site of the conference. Participants which have registered successfully (including payment of the registration fee) will be notified by e-mail. The registration for excursions and the other conference services, as well as hotel reservations, should be done in the same form.

The registration will open March 15 and end June 30. If you cannot use the on-line www-registration procedure, you may print the registration sheet, or ask for a printed copy of the form from the conference secretary. The registration will be completed when we receive the payment. Those participants who need a visa for coming to Germany can ask the LOC for confirmation of the invitation.

CONFERENCE FEES

	Received until 31 May 2003	From 1 June 2003
Ordinary Participant	300 Euros	330 Euros
Individual EPS Member	270 Euros	300 Euros
PhD student	270 Euros	300 Euros

The conference fee covers the following:

- Admission to all scientific sessions
- Coffee and refreshments
- Electronic services (web archive, proceedings, on site computer services etc.)
- Welcome reception
- Opera performance
- Conference banquet
- Tickets for public transportation
- Conference material

The following are not included in the conference fee:

- Accommodation
- Meals
- Conference excursions
- Transportation
- Copies of transparencies
- Insurance

Accompanying persons wanting to participate in the opera performance and the conference banquet have to pay 75 Euro.

SUPPORT

There is some financial support available for participants not able to pay the conference fee and the travel cost.

a) High Level Scientific Conference Programme of the European Commission. This program is intended for young researchers under 35 who are citizens of EU-countries and of associated countries.

b) East West Fund of the EPS. This programme provides grants to individual physicists working in and originating from less favoured European countries..

c) Young Physicist Fund of the EPS. This programme is also intended for researchers under the age of 35.

Especially funds for b) and c) are very limited. All requests for support should be submitted upon registration. The LOC will act in the name of the sponsoring organisations or forward the request to the responsible bodies.

Participants from developing countries may also apply directly for the Abdus Salam Travel Grant provided by the Abdus Salam ICTP for a (partial) cover of their travel expenses.

PAYMENT METHODS

All the payments should be made by:

- Credit Card (Visa, EuroCard or MasterCard), by giving the requested information in the registration form or by faxing a separate form available on our web pages to the Aachen Tourist Service.

- Bank Transfer to the following account:

RWTH Aachen HEP 2003

Account number: 18

Bank: Sparkasse Aachen

BLZ 39050000 (for transfer from German banks)

Swiftcode AACSD33 (for transfer from outside Germany)

Purpose of payment: HEP2003, Kostenstelle 133005.75

Participants from abroad using the bank transfer should make sure to include the (sometimes sizeable) fees of the corresponding banks.

- On site registration in cash (disfavoured).

All payments should be made in Euro. If you pay by a bank order, make sure that the name of the participant appears on the bank order.

HOTELS IN AACHEN

You should reserve your accommodation using the registration form. Of course you can also make your private arrangements. Aachen has hotels in all price classes. They are described on the web pages.

SOCIAL PROGRAM

Evening program

All delegates and accompanying persons are welcome to attend the evening programs. To register for these events, please complete the appropriate part of the registration form. For organisational reasons we ask you to register not later than June 15.

a) Welcome party and city reception, Thursday July 17, at 19.00. Included in the registration fee.

b) Opera performance of La Traviata by Giuseppe Verdi. The event will take place in the Aachen Stadttheater on Monday July 21 at 18.30 h. Tickets will be issued on a “first come first serve” basis after receiving the registration fee. This is again an urgent invitation for early registration. The performance is included in the registration fee.

c) Conference banquet following directly after the opera in the Aachen opera house. Included in the conference fee.

Excursions

Sunday July 20 is reserved for excursions. All participants and accompanying persons are welcome to attend the excursions. Several different excursions will be organised. See our web pages for more detailed description of the tours and for prices. The excursions will include visits of Düsseldorf, Maastricht, Köln (Cologne) etc.

TRAVELLING

Aachen can easily be reached by car, train or plane. Details especially concerning transportation from the nearby airports of Düsseldorf, Cologne and Maastricht are provided on the web pages.

COMMITTEES

International Advisory Committee:

J.J. Aubert (Marseille), H.S. Chen (Beijing), J.M. Dorfan (SLAC), J. Engelen (NIKHEF), B. Foster (Bristol), D. Horvath (Budapest), E. Iarocci (INFN Rome), C. Jarlskog (Lund), K. Kleinknecht (Mainz), L. Maiani (CERN), G. Mikenberg (Rehovot), K. Peach (Rutherford), V.A. Rubakov (Moscow), A.N. Skrinsky (Novosibirsk), M. Spiro (Saclay), H. Sugawara (KEK), M. Tigner (Cornell), A. Wagner (DESY), M.S. Witherell (FNAL)

International Organising Committee:

G. Barreira (Lisbon), Ch. Berger (Aachen) , J. Bernabeu (Valencia) , K. Hübner (CERN), P. Levai (Budapest), P. Osland (Bergen), F. Pauss (Zürich), E. Rabinovici (Jerusalem), K. Rybicki (Krakow), P. Sphicas (Athens), M. Spiro (Saclay, Chair), J. Tuominiemi (Helsinki), P. Vilain (ULB Brussels), D. Wark (Sussex/RAL), J. Wess (Munich), F. Zwirner (Rome)

Local Organising Committee:

M. Beneke, Ch. Berger (Chair), W. Braunschweig, T. Hebbeker, K. Hoepfner, T. Kress, D. Rein, A. Schultz von Dratzig, R. Steinberg

SUMMARY OF DEADLINES

March 15, 2003

- start of registration

May 4, 2003

- submission of abstracts

June 15, 2003

- submission of papers
- registration for the evening programs

June 20, 2003

- end of registration

October 15, 2003

- manuscripts for the proceedings