

SECOND AND FINAL ANNOUNCEMENT

XXIII International Conference on Photonic, Electronic, and Atomic Collisions



July 23-29, 2003

Stockholm University and Aula Magna – Stockholm, Sweden



ICPEAC 2003 HOMEPAGE: <http://www.physto.se/icpeac/>

Photos: Upper left: Steamboat (B Lind); Lower left: From the Carl Milles museum (S Mezzanotte); Upper right: Sailing in the archipelago (B Lind); Lower right: Riddarholmen (R Ryan).

Dear colleagues,

we warmly welcome you to participate in the XXIII International Conference on Photonic, Electronic, and Atomic Collisions (ICPEAC). The conference will be held at the end of July (July 23-29, 2003) at Stockholm University and Aula Magna - a newly built lecture hall with interesting and appealing architecture. In this second and final announcement you will find the main parts of the detailed scientific program, instruction on how to submit abstracts, information on registration and hotel reservations, and the social programs. We look forward to very informative, and highly interesting, scientific presentations in the lecture halls and at the poster sessions. The Sheldon Datz symposium and the public lecture are other expected highlights. On Wednesday July 23, registered participants and accompanying persons are invited to a Reception in the beautiful City Hall - world famous for housing the Nobel banquet (see pictures below). Stockholm, the capital of Sweden, offers an additional wide variety of cultural experiences and relaxing atmospheres including excursions to the archipelago, visits to museums, art galleries, The Old Town, and many shops and restaurants. We hope that you will enjoy the science and atmosphere of the Stockholm ICPEAC 2003.

For the local organizing committee,



Above: The entrance to Aula Magna (photo E. Oppenheimer), Below: Fishing for Salmon in Stockholm City (photo: Olof OH Holdar).

Reinhold Schuch

Henrik Cederquist

Mats Larsson

Eva Lindroth



Upper left: The City Hall (photo: R Ryan); Lower left: The Nobel banquet (photo: L Åström); Upper right: City Hall interior (photo: E Dennis); Lower right: Aula Magna lecture hall (photo: E. Oppenheimer).

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IMPORTANT INFORMATION

CONFERENCE DATES AND VENUE

The XXIII International Conference on Photonic, Electronic, and Atomic Collisions (ICPEAC 2003) will be held July 23–29, 2003, in Stockholm, Sweden, at Stockholm University. The centre of the conference venue will be Aula Magna a modern and fully equipped auditorium seating 1200 persons. The conference language will be English. Instructions on how to get to the conference site are found at 'LOCAL TRANSPORTATION WITHIN STOCKHOLM AND TO THE CONFERENCE VENUE' and <http://www.konferensservice.su.se/english/aulamagna>

Stockholm, the capital of Sweden, is built on 14 islands between the Baltic Sea and Lake Mälaren. After many years of dedicated environmental work the water quality is very high. Swimming, diving, or even fishing for salmon or crayfish in the very heart of the city has thus become popular. Stockholm is often referred to as 'the Venice of the north' and its different parts all have their special character and charm - from the medieval Old Town to the more modern area around the market square Hötorget. Boats depart for tours into the archipelago, consisting of over 20.000 islands, and for Lake Mälaren with stops at e.g. Birka – Sweden's capital during the Viking era. Stockholm's cultural season of today centres around a rich variety of evening concerts at churches, museums and in the parks.

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THE HOMEPAGE FOR XXIII ICPEAC IN STOCKHOLM

At the Stockholm ICPEAC homepage you will have access to the full Book of Abstracts before as well as after the conference. At this homepage you will also find information on registration, hotels, travel, scientific and social programs, satellite conferences, and other related issues. The conference homepage is: <http://www.physto.se/icpeac>

CONFERENCE DESCRIPTION

SCOPE AND PROGRAM

The International Conference on Photonic, Electronic and Atomic Collisions (ICPEAC) is held biennially to promote the growth and exchange of scientific information in the field of photonic, electronic, and atomic collisions and related areas of atomic, molecular, and optical physics.

The scientific program will consist of sessions of Plenary lectures, Review talks, and Progress reports. Also included in the oral presentations are a few contributed papers, selected as "Special reports" (formerly known as "hot topics"). The contributed papers will be presented in afternoon poster sessions throughout the conference.

- 5 **Plenary lectures** (1 hour each, including discussion)
- 6 **Review talks** (45 minutes each, including discussion)
- 59 **Progress reports** (30 minutes each, including discussion)

Plenary talks should be of general interest to all participants. Review talks and Progress reports will be arranged in two parallel sessions. Review talks are expected to cover important advances in specific areas of photonic, electronic, atomic, and molecular collision physics, whereas progress reports should describe recent work in particular sub-fields, especially those carried out by the group represented by the speaker.

DEADLINES

Abstracts	March 1, 2003
Early registration	April 30, 2003
Request for support	March 2, 2003
Cancellation (75% refund)	June 15, 2003
Hotel reservations	June 23, 2003
Computer presentations (Invited speakers only)	July 16, 2003
Registration for the MSL visit	July 24, 2003
Manuscript submission (Invited speakers only)	July 29, 2003

SPONSORS

The conference will be held under the auspices of the following sponsors (list as of December 13, 2002)

The Royal Swedish Academy of Sciences through its Nobel Institute for Physics
The City of Stockholm
International Union on Pure and Applied Physics (IUPAP)
Swedish Foundation for Strategic Research
The Swedish Research Council
The Manne Siegbahn Laboratory
Department of Physics, Stockholm University
Hotel Birger Jarl, Stockholm
SAS, the "Official Airline Carrier" of ICPEAC 2003
Swedish National Space Board
RoentDek Handels GmbH
Physica Scripta
Journal of Physics B
Svenskt Tenn
Bfi Optilas/Coherent

Additional sponsors are warmly welcomed and will be visible on the ICPEAC home-page
<http://www.physto.se/icpeac/>

LIST OF INVITED SPEAKERS

PLENARY LECTURES

- | | |
|--------------------------------|---|
| N. Andersen (<i>Denmark</i>) | Polarization, alignment, and orientation in atomic collisions |
| L. Cocke (<i>USA</i>) | Momentum imaging in atomic collision physics |
| H. Hotop (<i>Germany</i>) | Resonance and threshold phenomena in low-energy electron attachment |
| F. Krausz (<i>Austria</i>) | Interaction of attosecond pulses with matter |
| S. Svanberg (<i>Sweden</i>) | Environmental and medical applications of photonic interactions |

REVIEW TALKS

- | | |
|--------------------------------|--|
| A. Chutjian (<i>USA</i>) | Atomic processes in space astrophysics |
| P. B. Corkum (<i>Canada</i>) | Attosecond atomic and molecular science |
| L. Malegat (<i>France</i>) | (e,2e) and (gamma, 2e) processes: closed and open questions |
| N. Mason (<i>UK</i>) | Electron driven processes-technological opportunities |
| E. Mazur (<i>USA</i>) | Black silicon: Femtosecond laser-assisted microstructuring of silicon surfaces for novel detector, sensing, and display technologies |
| C. Noble (<i>UK</i>) | Benchmark calculations for electron collisions with atoms, ions, and molecules |

PROGRESS REPORTS

- | | |
|---------------------------------|---|
| M. Allan (<i>Switzerland</i>) | Threshold phenomena in electron collisions |
| B. Ban-d'Etat (<i>France</i>) | Potential and kinetic sputtering of UO ₂ by slow highly charged ions |
| H. Batelaan (<i>USA</i>) | The Kapitza-Dirac effect: Matter optics with electrons |

N. Berrah (<i>USA</i>)	Inner-shell photodetachment of negative ions: Probing dynamics and structure
J-M. Bizau (<i>France</i>)	Photoionisation of multiply-charged ions along isonuclear and isoelectronic series
O. Björneholm (<i>Sweden</i>)	Core-level studies of free molecules and clusters
J. Bohn (<i>USA</i>)	Linking ultracold polar molecules
P. Bolognesi (<i>Italy</i>)	Two electron processes: Satellite transitions and double photoionization of atoms
P. Bowe (<i>Italy</i>)	Progress towards production, trapping and study of antihydrogen
T. Brixner (<i>Germany</i>)	Adaptive femtosecond quantum control
S. Buckman (<i>Australia</i>)	Electron - molecule collisions at low incident energies
E. Charron (<i>France</i>)	Optimal control of double ionization in Ca
L. A. Collins (<i>USA</i>)	Time-dependent simulations of large-scale quantum dynamics
O. Dulieu (<i>France</i>)	Ultracold molecule formation and detection
J. Feldhaus (<i>Germany</i>)	The FEL program at DESY: From first results at 100 nm wavelength to a true 1 Å X-ray laser
G. Gabrielse (<i>USA</i>)	Cold antihydrogen
J. Gillaspay (<i>USA</i>)	Collision studies with highly charged ions
P. Glans (<i>Sweden</i>)	Dielectronic recombination used as a tool for spectroscopic studies of highly charged ions
M. S. Gravielle (<i>Argentina</i>)	Grazing ion-surface collisions
C. Greene (<i>USA</i>)	Dissociative recombination of polyatomic molecules: A New Mechanism
J. Greenwood (<i>UK</i>)	The contribution of charge exchange to EUV and X-ray astronomy
A. Hatakeyama (<i>Japan</i>)	Properties of alkali atoms confined in a cold helium gas
O. Heber (<i>Israel</i>)	Trapped ion beams: From atomic physics to mass spectrometry
P. A. Hervieux (<i>France</i>)	Charge transfer and evaporation in low energy collisions of metal clusters and fullerenes with atomic targets
T. Hyodo (<i>Japan</i>)	Cooling and quenching of positronium and prospect for a BEC
N. Kabachnik (<i>Russia</i>)	Theoretical and experimental study of the angular correlations in Auger cascades in noble gas atoms
M. Khakoo (<i>USA</i>)	Measurements of differential and doubly differential cross-sections for electron impact elastic scattering, excitation, and ionization of atomic hydrogen
T. Killian (<i>USA</i>)	Collisions in ultracold plasmas

T. Kirchner (<i>Germany</i>)	Nonperturbative study of the rearrangement dynamics in ion-atom collisions with active electrons on projectile and target
H. Kohguchi (<i>Japan</i>)	Crossed beam ion-imaging of open-shell collisions
J. Lower (<i>Australia</i>)	Developments in quantum state resolved (e,2e) experiments
A. Lyalin (<i>Russia</i>)	Molecular dynamics simulations of cluster fusion and fission processes
L. B. Madsen (<i>Denmark</i>)	Correlated electrons in multiply excited atoms at and below threshold
F. Meyer (<i>USA</i>)	Site-specific neutralization of slow multicharged ions incident on solid surfaces
P. Moretto-Capelle (<i>France</i>)	Electron capture, ionization and fragmentation in collisions of singly-charged ions with C ₆₀
S. B. Nielsen (<i>Denmark</i>)	Gas-phase studies of chromophore molecules in an electrostatic storage ring
T. Odagiri (<i>Japan</i>)	Doubly excited molecules in electron collisions as studied by coincident electron-energy-loss spectroscopy
T. Orlando (<i>USA</i>)	Electron collisions from complex targets
G. Paulus (<i>Germany</i>)	Quantum orbits made visible in strong-field ionization
H. Sadeghpour (<i>USA</i>)	Long-range tubular states in collision of charged particles with nanotubes
A. Saenz (<i>Germany</i>)	Molecular hydrogen in strong laser fields: Bond softening, enhanced ionization, and coherent control
N. Saito (<i>Japan</i>)	Dynamics of core-excitation in small molecules probed by the coincidence momentum imaging technique.
N. K. Sakimoto (<i>Japan</i>)	Full quantum-mechanical study of protonium formation in slow collisions of antiprotons with hydrogen atoms
M. Sant'Anna (<i>Brazil</i>)	Photon-like ionization of Ne by H ₂ ⁺ ions in breakup collisions
M. Schulz (<i>USA</i>)	Kinematically complete experiments on single and multiple ionisation in heavy ion collisions
R. Srivastava (<i>India</i>)	Electron impact excitation of atoms in the relativistic distorted wave approximation
P. C. Stancil (<i>USA</i>)	Theoretical studies of vibrationally resolved electron capture in low-energy ion-molecule collisions
H. Stapelfeldt (<i>Denmark</i>)	Laser aligned molecules: Applications in physics and chemistry
A. Stelbovics (<i>Australia</i>)	Three body Coulomb scattering above the ionization threshold
T. Stöhlker (<i>Germany</i>)	Angular correlation and polarisation studies for radiative electron capture into high-Z ions
B. Sulik (<i>Hungary</i>)	Young type interferences in electron emission from molecular hydrogen by fast ion impact
C. Surko (<i>USA</i>)	High resolution positron scattering and annihilation studies using a trap-based beam

A. Suzor-Weiner (<i>France</i>)	The application of multichannel quantum defect theory to dissociative recombination
K. Taylor (<i>UK</i>)	Intense laser interactions with few-electron atoms and molecules
R. Thomas (<i>Sweden</i>)	Branching between different decay channels in dissociative recombination of poly-atomic molecules.
M. Weidemüller (<i>Germany</i>)	Interactions in optically trapped, ultracold gases: from atoms to molecules
A. Wolf (<i>Germany</i>)	Storage Ring Experiments with Cold Molecular Ions: the H_3^+ puzzle
Y. Yamazaki (<i>Japan</i>)	Ultraslow antiproton beam and its application to atomic collisions
S. Yoshida (<i>Austria</i>)	Tailoring and controlling wavepackets in multi-photon atom collisions

POSTER SESSIONS

LOCATION

The poster sessions will be organized in 'Frescatihallen' – a partially rebuilt indoor-sports arena which is normally used for tennis and badminton. The building is situated within a couple of minutes walking distance from the Aula Magna (see the map on the inside of the back cover). During five weekday afternoons (Wednesday, Thursday, Friday, Monday, and Tuesday), many participants will be expected to present their contributed abstract, often representing their most recent and exciting scientific results, on well-prepared and informative posters. Guidelines for poster-preparations can be found under the title 'CONTRIBUTED PAPERS AND POSTER PRESENTATIONS'. We expect that around 200 posters will be displayed during each one of the five poster sessions.

ICPEAC 2003 POSTER PRIZES

After each one of the five poster sessions, there will be a vote for the best poster of the day. Registered conference participants will be encouraged to hand in their votes to the J. Phys. B. information desk in the poster hall. The J. Phys. B. publisher will award prizes to each one of the five vote-winning poster contributions. The winners will be announced on the following day of the conference. A full list of all winners and their poster titles will be published in J. Phys. B. after the conference.

PUBLIC LECTURE

ICPEAC 2003 PUBLIC LECTURE

The public lecture:

A. Bárány (*Sweden*) The Nobel Prize and Stockholm – A guided tour for pedestrians

will be presented in Aula Magna on Thursday, July 24, at 19:30. This lecture is open for participants, accompanying persons and the public. Conference participants and accompanying persons are invited to an informal *gathering with light refreshments in the entrance hall of Aula Magna starting at 18:30.*

Abstract: The first part of the talk will describe some of the inner wheels of the Nobel machinery, how they were formed and how they work. In the second part, examples will be given through the stories of two Nobel Laureates with particular relevance for Stockholm: Svante Arrhenius and Manne Siegbahn.

SATURDAY VISIT TO THE MANNE SIEGBAHN LABORATORY

LECTURE ON BEAM ORDERING

In connection with the tour of the Manne Siegbahn Laboratory (MSL) on **Saturday July 26**, one (or several) lectures:

H. Danared (*Sweden*) One-dimensional ordering in cooled heavy-ion beams will be given (chair: MSL Director prof. Ö. Skeppstedt). The Manne Siegbahn Laboratory is housed in a red brick building just across the lawn, and to the left, looking from the main entrance of Aula Magna. The lecture (or

lectures) **will be given in the Manne Siegbahn Lecture hall**, which only seats about 100 persons. Therefore, a list for registration (deadline Thursday July 24) to this event will be available at the conference secretariat and the number of lectures given will be adjusted to the number of registered persons. The first lecture **will start at 9:30 in the morning of Saturday, July 26**. Additional lectures will be scheduled if there is a need to do so. After the lectures, the audiences may join guided tours of the accelerator facilities.

GUIDED TOURS OF THE CRYRING FACILITY

The guided tours will start directly after the lectures (see above) and include visits to the cooler and storage ring CRYRING, its electron cooler, its internal gas-jet target, the cryogenic Electron Beam Ion Source, the 14.4 GHz ECR, the Penning Ion trap for precision mass measurements and a few other experimental stations. The latter feature set-ups for studies of molecular break-up in dissociative recombination, precision spectroscopy of highly charged ions using dielectronic recombination, pulsed recoil-ion momentum spectroscopy, ion-surface and ion-cluster interactions, and set-ups for measurements of lifetimes of metastable states and detachment of negative ions.

SHELDON DATZ SYMPOSIUM

THE SHELDON DATZ SYMPOSIUM 2003

is organized in the memory of Sheldon Datz and his extraordinary contribution to the field of Photonic, Electronic, and Atomic Collisions (ICPEAC). The symposium consists of an invited lecture:

J.P. Toennies (Germany) (Title to be announced)

to be presented in Aula Magna on Monday July 28 at 19:30, and a small informal reception with light refreshments in the entrance hall of Aula Magna starting at 18:30.

Sheldon Datz came to Oak Ridge National Laboratory in Tennessee, USA, in 1951. There, he began work on the application of molecular beam techniques to the study of chemically reactive collisions. By the mid-fifties, Sheldon, together with Ellison Taylor, had performed truly pioneering studies of chemical reactions in molecular beam-beam collisions. The famous Datz and Taylor papers of the 1950s and 1960s laid the foundations for an entirely new field of molecular beam chemistry. Further, Sheldon's research interests spanned collision energies from a few meV to TeV, in topics from fundamental processes in few-electron ion systems, such as dielectronic recombination, to complex heavy-ion multiple scattering processes in solids. His work led to considerable national and international recognition culminating with the Enrico Fermi Award presented on December 18, 2000, by U.S. President Clinton, and shared with Sidney Drell and Herbert York. In the 1990s, Sheldon helped to initiate a series of very successful experiments on dissociative recombination at the ion storage and cooler ring facility CRYRING, operated by the Manne Siegbahn Laboratory and Stockholm University. The symposium speaker, professor J.P. Toennies, is director at the Max-Planck Institute in Göttingen and a long-time collaborator and friend of Sheldon Datz.

SPONSOR AND VENDOR EXHIBITIONS

ICPEAC 2003 SPONSOR AND VENDOR EXHIBITIONS

The sponsor and vendor exhibitions will be located in the entrance halls of Aula Magna. The opening hours are:

Tuesday, July 22 15:00 – 20:00
Wednesday, July 23 8:30 – 17:00
Thursday, July 24 8:30 - 19:30
Friday, July 25 8:30 - 16:00

Participants are strongly encouraged to take the time to visit this exhibition during one of the many social events that will take place in this general area.

EMAIL AND WWW FACILITIES

EMAIL AND WWW-ROOM

Conference participants will have access to e-mail and internet facilities (located in a building some 30 meters from Aula Magna) during the conference. The e-mail and www-room will be equipped with 36 terminals at which the participants will be able to connect to their home computers and thus conduct their e-mail businesses. In addition, the internet will be accessible at these terminals for convenient access to research journals (through the library of the Physics Department at the University), the conference home-page (www.physto.se/icpeac), and general services needed – for example – for travel arrangements. The opening hours for the e-mail/www room are the following:

Wednesday, July 23:	8:00 - 18:00
Thursday, July 24:	8:00 - 18.30
Friday, July 25:	8:00 - 19:00
Saturday, July 26:	closed
Sunday, July 27:	closed
Monday, July 28:	8:00 - 18.30
Tuesday, July 29:	8:00 - 18:00

In case there are queues for the computers, sessions will be limited to 20 minutes.

EMAIL AND WWW CONNECTIONS FOR LAPTOP COMPUTERS

There is a limited number of public internet connections available outside the main lecture hall. A number of these will be permanently assigned to commercial exhibitors and the conference managements, but the remaining connections will be available for conference participants. In order to connect your laptop computer to one of the outlets you need to bring a cable, which connects to your computer on one end and has a RJ-45 connector (standard within Europe and the US) at the other end. In addition your computer needs to be set up with a floating IP-address.

EXECUTIVE AND GENERAL COMMITTEE MEETINGS

One of the main tasks of the ICPEAC General Committee is to suggest Invited speakers to the ICPEAC Program Committee (Executive and General Committee members). At the end of March 2003, the selections of the submitted contributed papers for oral presentations are made. Other important tasks of the General and Executive Committees are to discuss the future development of the ICPEAC conference series including financial situations for recent, present and future conferences. The two following conference locations have already been decided to be in Argentina (2005) and Heidelberg, Germany (2007). Proposals for the 2009 ICPEAC conference will be presented in Stockholm. In order to discuss such matters the Executive Committee will meet in the Manne Siegbahn Laboratory (MSL) on Tuesday, July 22, at 19:00. The General Committee will meet on Wednesday lunch at 12.30 and, if necessary, on Friday afternoon at 18.00. Meals will be served at some of these meetings. The members of the Executive and General Committees are listed in the beginning of this Announcement.

ICPEAC 2003 OPEN BUSINESS MEETING

All ICPEAC 2003 participants are welcomed to an open ICPEAC business meeting at 13:30 on Monday July 28 (i.e. after lunch but before the afternoon sessions) in Aula Magna. This meeting will feature the ICPEAC treasurer's report, a presentation of new ICPEAC committee members, a short presentation of the next ICPEAC in Argentina 2005, and general information on other future ICPEACs.

REGISTRATION INFORMATION

REGISTRATION FORM

Registration should be done through the ICPEAC 2003 homepage at <http://www.physto.se/icpeac/>. On this page go to 'Registration' and follow the instructions. If this is not possible you may use the registration form which is included in this announcement and return it to:

Stockholm Convention Bureau
ICPEAC 2003, PO Box 6911,
SE – 102 39 Stockholm, Sweden
FAX: int + 46 8 5465 1599

REGISTRATION FEES

Be sure to carefully consult the comments below about tax (VAT), identify your category and **fill out the appropriate lines on the registration form**. Note that most conference participants will be exempt from tax. The following fees, prices, and deadlines apply:

Level of Participation	Fee/Price Before April 30, 2003	Fee/Price After April 30, 2003
Regular Participant	3 600 SEK*	4 000 SEK*
Participant (excluding conf. dinner)	3 300 SEK*	3 600 SEK*
Regular Student Participant	2 200 SEK*	2 500 SEK*
Student Participant (excluding conf. dinner)	1 900 SEK*	2 100 SEK*
Printed Book of Abstracts (per copy)	300 SEK	300 SEK
Accompanying persons	900 SEK	1 100 SEK
Accompanying persons (excluding conf. dinner)	600 SEK	700 SEK
Accompanying persons (age under 16 excl dinner)	200 SEK	200 SEK
Additional conf. dinner tickets (age 16 and up)	600 SEK	700 SEK**
Additional conf. dinner tickets (age 4-15)	200 SEK	300 SEK

* All conference participants from outside the European Union (EU) are exempt from tax (VAT), i.e. they should pay the rates as listed in the table. Participants from within the European Union, but from outside Sweden, are also exempt from tax *if they represent a taxable entity within EU* (this is most likely the case if you plan to attend the conference as a representative for a University or Research Institute/Organization). Swedish participants, participants representing non-taxable entities within the EU, and private persons from within EU, have to pay 25% VAT on top of the rates in the table for participation in the conference.

** Additional conference tickets are sold on site (for 700 SEK) if seats are available.

The prices for the printed Book of Abstracts, the fees for Accompanying persons, and separate conference dinner tickets include sales tax. Children under four years of age may accompany their parents at the conference dinner without charge.

The Regular Participant conference fee includes: access to the lecture halls, the poster sessions, the e-mail and web facilities, the printed Program Book, a CD with the Book of Abstracts, the proceedings (Book of Invited papers), the informal welcome reception, the reception at the Stockholm City Hall, the light refreshments in connection with the Sheldon Datz Symposium and the Public Lecture, coffee breaks, the conference dinner and the entertainment program at Skansen on Saturday evening.

The Regular Student Participant fee includes: All the above except the proceedings.

The Student Participant (excluding conference dinner) fee includes: All the above except the proceedings, the conference dinner and the entertainment program at Skansen on Saturday evening.

The Participant (excluding conference dinner) fee includes: The same package as for the Regular Participant except for the conference dinner and the entertainment program at Skansen on Saturday evening.

The Accompanying person fee (900 SEK) includes: The informal welcome reception, the Reception at the Stockholm City Hall, light refreshments in connection with the Public Lecture, a guided tour of old town, access to the full accompanying persons program (for additional fees in some cases), the conference dinner and the entertainment program at Skansen on Saturday evening.

The Accompanying person fee (600 SEK) includes: The same package as for the higher fee except for the conference dinner and the entertainment program at Skansen on Saturday evening.

The Accompanying person fee for children under 16 (200 SEK) includes: The informal welcome reception, the Reception at the Stockholm City Hall, light refreshments in connection with the Public Lecture, a guided tour of old town, and access to the full accompanying persons program (for additional fees in some cases).

PAYMENT OPTIONS

Payment should be made in SEK, payable to Stockholm Convention Bureau ICPEAC 2003, PO Box 6911, SE – 102 39 Stockholm, Sweden. Please make sure to indicate “**ICPEAC 2003**” and your name and affiliation on all money transfers. The payment options are:

- 1 Eurocard, Mastercard or Visa. The Credit Card number and expiry date should be filled out on the web registration form (this is the preferred method of registration), or if this is not possible on the supplied registration form.
- 2 A direct deposit to the bank account: S E B, Stockholm, No 5267-10 066 16, SWIFT-address ESSEESS (IBAN Account No SE735000000052671006616). A copy of the transaction should be enclosed with the registration form.
- 3 For Swedish delegates only: Postgiro 65 37 38-5, Bankgiro 644-8773. Please enclose a copy of the transaction with the registration form. Note that the 25 % sales tax (VAT) must be added to the Regular Participant, Participant, Regular Student Participant, and Student Participant fees listed in the table above when the payment is made within Sweden.

Please consult the attached Registration form or the homepage <http://www.physto.se/icpeac> for further details.

PROCESSING AND PUBLICATION OF PERSONAL DATA

The personal data of the conference participants may - after their consent - be used for statistical purposes and for information also after the closing of ICPEAC 2003. This information may concern announcements for future conferences within the same field as, e.g., the announcements for ICPEAC 2005 in Argentina. On the registration form, we ask for your permission to use your personal data for such purposes. Our request is made in order to adopt to common rules, for registers containing personal data, within the European Union and Sweden.

CONFIRMATION OF THE REGISTRATION

An email from the organizers will confirm your registration for ICPEAC 2003.

ON-SITE REGISTRATION AND INFORMATION DESK

The registration desk at Aula Magna will be open for registration and information as follows:

Tuesday, July 22	15:00 – 20:00
Wednesday, July 23	08.00 – 17:00
Thursday, July 24	08:30 – 17:00
Friday, July 25	08:30 – 17:00
Saturday, July 26	CLOSED
Sunday, July 27	CLOSED
Monday, July 28	08:30 – 17:00
Tuesday, July 29	08:30 – 16:30

CANCELLATION AND REFUND POLICY

Your cancellation has to be made in writing to Stockholm Convention Bureau. The policy regarding refund of the registration fee is as follows: Three quarters (75%) of the registration fee will be refunded for cancellations received by Stockholm Convention Bureau **no later than June 15, 2003**. After this date, no refund is possible. For cancelling reservations for hotels or other accommodations, see the information under ‘HOTELS AND ACCOMMODATIONS’.

INFORMATION ON INVITATION, ATTENDANCE AND BADGES

OFFICIAL INVITATION

An official letter of invitation to attend ICPEAC 2003 may be printed from the conference web site <http://www.physto.se/icpeac/>. There, you may also request a personal letter of invitation (**deadline June 15, 2003**), which may be needed for, e.g., visa applications. Please, check with the Swedish Embassy or Consulate if you are uncertain about visa requirements. **Note, that an invitation implies no obligation, financial or otherwise, by ICPEAC.** In case you do not have web access, mail requests to:

Stockholm Convention Bureau
ICPEAC 2003, PO Box 6911,
SE – 102 39 Stockholm, Sweden

CERTIFICATE OF ATTENDANCE

A Certificate of Attendance will be provided upon request at the registration desk on the last day of the conference (Tuesday July 29, 2003).

BADGES

The participants name badges will be provided upon registration. All registered participants are kindly asked to wear the badges throughout the conference. Only badge holders will be admitted at scientific and social events.

SUPPORT POLICY

There will be limited funds available for supporting students and participants from less-favoured regions.

SUPPORT FOR PARTICIPANTS FROM LESS-FAVOURED REGIONS

Participants from the former Soviet Union, Eastern Europe and other less-favoured regions may be eligible for support. In all cases participants requesting such support must submit an application stating citizenship, affiliation, professional status, age, sex and requested support to allow participation. Candidates with a submitted contribution (abstract) that has been approved for presentation at the conference will be given priority.

SUPPORT FOR STUDENT PARTICIPATION

Students requesting support for participation must submit an application stating their citizenship, affiliation, age and sex. They should also state their subject of study, submit a copy of their academic grades and other accomplishments. A letter of certification regarding their student status issued by an official representative of their organization should accompany the application. Candidates with a submitted contribution (abstract) that has been approved for presentation at the conference will be given priority.

The deadline for application for participation support of either category is March 2, 2003. Applicants will be notified about the outcome before April 15, 2003. The application should be sent by regular mail to:

Doc. Henning Schmidt
Stockholm University
AlbaNova
Department of Physics
SE 106 91 Stockholm, Sweden

CONTRIBUTED PAPERS AND POSTER PREPARATIONS

The contributed papers will be presented in afternoon Poster Sessions on Wednesday, Thursday, Friday, Monday, and Tuesday (July 23-29). These sessions are the main forum for discussion of recent progress and presentation of new research. Each contributed paper will be allocated one poster board as described below.

SPECIAL REPORTS

The program committee will select, from among the submitted abstracts, the reports to be presented orally. The authors of Abstracts selected for Special Reports will be notified in April 2003.

INSTRUCTION FOR ABSTRACT PREPARATION

All participants are invited to submit abstracts fitting the topics of the conference. Abstracts should be informative and outline the results of the theoretical and/or experimental research to be presented. New insights should be stressed. The abstract should enable the program committee to judge the scientific merit of the paper. The abstract should be one page and prepared as shown in the sample abstracts available on <http://www.physto.se/icpeac/>.

SUBMISSION OF ABSTRACTS THROUGH THE ICPEAC WEB SITE (MANDATORY)

All abstracts should be submitted through our web site <http://www.physto.se/icpeac/>, where step-by-step instructions are given. Please note that **we cannot accept abstracts submitted by mail, email or FAX**. All

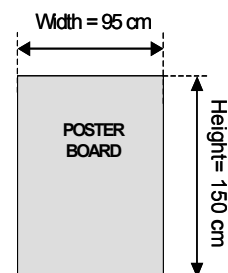
information around the abstract; subject, title, authors, addresses etc are filled out directly on the web. The abstract-file itself is submitted (uploaded) in pdf-format (recommended) or postscript-format. Sample abstracts in PDF, LaTeX and Microsoft Word are provided at the homepage. Links to free-ware with which you can transform your document to postscript or pdf are also available. When you have submitted your abstract you can directly on-line examine the "printed" version, before you accept the submission. **The deadline for submission of Abstracts is March 1st 2003.** You will be notified by email that your abstract is received and get a key-number that permits you to change your abstract until the March 1st deadline. After the meeting of the ICPEAC Program committee (which takes place at the end of March), authors will be notified by email (in April) if their abstracts have been accepted. Authors of Abstracts selected for oral presentations of Special Reports will also be notified in April.

BOOK OF ABSTRACTS AVAILABLE ON THE WEB

All accepted abstracts will be available at least one month before the conference as an on-line "Book of Abstracts" on <http://www.physto.se/icpeac/>. The abstracts will be in pdf-format and can be printed out. This material will further be distributed to all registered participants as a CD upon registration in Stockholm. Acrobat Reader (pdf) is needed to read the CD. The titles of the abstracts will also be listed in the printed Program Book. A printed copy of the full Book of Abstracts may be purchased for 300 SEK (including sales tax) by crossing the Printed Book of Abstracts box at the on-line registration page on <http://www.physto.se/icpeac/> (or by filling out the appropriate line on the printed registration form).

POSTER PREPARATION AND PRESENTATION

Each afternoon of the conference will feature one poster session, for a total of five days (Wednesday, Thursday, Friday, Monday and Tuesday). The poster dimensions are 95 cm wide and 150 cm high (see figure), which makes them well suited for posters in the standing A0 format (that is the portrait format). Pins for attaching the posters will be available at the poster sessions. Please note that the title, authors and affiliation should be in letters large enough to be readable at a distance of a few meters. Posters may be presented at the conference only if a corresponding abstract has been accepted and if at least one author has registered at the conference. Post deadline posters may be considered for presentation provided that poster space is available. Registered posters will be assigned a unique code indicating the day of presentation as well as the exact board at which it should be posted. The posters may be posted - at the earliest - at 10:00 a.m. on the day of presentation and have to be removed and taken care of by the author at the latest at 8:45 the following morning. The J. Phys. B. publisher will award prizes to the best poster of the day. Registered participants will be able to make votes for 'the best poster' during each poster session.



INFORMATION TO INVITED SPEAKERS

This information mainly concerns the invited speakers, who have been selected by the ICPEAC program committee and who have agreed to give a Plenary lecture, a Review talk or a Progress report. In addition, a few of the submitted poster contributions will be selected for short oral presentations in Special reports. The program committee will select the Special reports after the deadline for abstract submission (March 1, 2003) and the corresponding letters of invitations will be sent out in April. There are 5 Plenary lectures which will be presented in the main auditorium (Aula Magna). The Review talks, the Progress reports, and the Special reports will be held in parallel sessions. The lecture halls are equipped with conventional over-head projectors, computer beamers ('PC-projectors'), and slide projectors. **We recommend the speakers to submit their presentations (in Power Point) before the 16th of July, which will make it possible for the lecture-hall staff to make 'test runs' before the conference (see below for details about the submission).**

SCHEDULING OF TALKS AND DETAILED INFORMATION TO SPEAKERS

The exact dates and times at which the different Invited talks and Special reports are scheduled will be forwarded to the speakers in the beginning of May when we expect to have a complete list including Special-report speakers. At this time (in May) we will also send detailed practical instructions to all speakers, but the most essential parts of these instructions are already given below.

PREPARATION OF COMPUTER PRESENTATIONS

We recommend that you use MS PowerPoint (any version) for computer presentations as this is the system in operation in the lecture halls. The sizes of the lecture halls and the screens make it necessary to use fonts of at least 24 pt size (in Arial, Helvetica or Times New Roman).

SUBMISSION OF COMPUTER PRESENTATIONS

Invited speakers are recommended to submit their PowerPoint presentations to the lecture hall staff (aula.magna@lmc.su.se) for pre-conference test runs. As a mail subject give ICPEAC2003 and your last name. Please, name your file ICPEAC_day_name.ppt (for example ICPEAC_Tue_Anderson.ppt if Anderson is scheduled to speak on Tuesday). In case you use electronic submission, do not forget to bring a back up on CD-rom and/or a diskette. You will be notified about possible problems or, most likely, a successful test-run of your talk via e-mail before the conference. Changes in already submitted presentation may be made by submitting a new version or by bringing a new version to Stockholm. In the latter case, the final version has to be given to the organizers at the latest the day before your talk. For speakers who have submitted their presentations electronically the conference computer will be used. It is also possible to use your own computer, which is then placed on a table close to the podium and connected to a four-way switch (four external computers may be hooked up at the same time) from which the speaker selects the signal from his/her computer to the beamer. Macs may also be used for such hook-ups, but only if they are equipped with a VGA-port. **The deadline for electronic submission of computer presentations is July 16th 2003.**

ON-SITE PREVIEWS OF PRESENTATIONS

There will be a small preview room available for speakers who want to go through their talk in advance. This room will be equipped with a beamer and a PC with CD-rom and diskette units as well as with a conventional OH-projector.

TIPS ON HOW TO PREPARE AND CONDUCT A TALK

The ICPEAC Invited Speakers have been carefully selected on the basis of their interesting research results and their expected abilities to present these results for an interested audience. We are thus confident that there will be many clear and informative presentations at the conference. Please, consult the American Physical Society (APS) homepage <http://www.aps.org/meet/guidelines.html> on how to prepare and conduct a talk.

SUBMISSION OF INVITED PAPER MANUSCRIPTS

The Invited Speakers are requested to submit manuscripts describing the research that is presented in their talks at the Stockholm ICPEAC. The articles will, if they are accepted, be published in the XXIII ICPEAC Book of Invited Papers. The page limits are 12, 10, 8, and 6 for the Plenary Lectures, Review Lectures, Progress, and Special Reports, respectively. Here, the 1-page unit is defined as one page in the printed Book of Invited Papers from the XXII ICPEAC held in Santa Fe, New Mexico, 18-24 July 2001 (Rinton Press ISBN: 1-58949-018-5). Note, however, that we have not yet selected the publisher for the XXIII ICPEAC Book of Invited Papers at the time of printing of the Second Announcement (December 2002). **The deadline for submission of Invited paper manuscripts is July 29th 2003.**

FINAL CONFERENCE PROGRAM

A detailed conference program and schedule will be made available by May 2003 at the ICPEAC 2003 website: <http://www.physto.se/icpeac/> The (final) Program Book will be printed and handed out to all participants upon registration.

BOOK OF INVITED PAPERS

The book of invited papers, including write-ups of Plenary Talks, Review Talks, Progress Reports, and Special Reports will be printed and mailed to all registered Regular Participants and Participants (i.e. excluding Regular Student Participants and Student Participants) during 2004. Invited Speakers, please note that **the deadline for submission of manuscripts is Tuesday July 29 2003** and consult 'SUBMISSION OF INVITED PAPER MANUSCRIPTS' (above), and <http://www.physto.se/icpeac/> before preparing the manuscript.

SOCIAL CONFERENCE PROGRAM

INFORMAL WELCOME RECEPTION IN AULA MAGNA

All registered ICPEAC participants and Accompanying persons are invited to an informal reception on **Tuesday, July 22 starting at 18:00**. The reception will be held in the vicinity of the registration desk and in close proximity to the sponsor and vendor exhibitions. Light snacks and drinks will be served. Please register for this event in advance.

THE ICPEAC PUBLIC LECTURE

The ICPEAC public lecture *The Nobel Prize and Stockholm – A guided tour for pedestrians* will be presented by professor Anders Bárány from the Nobel museum. This event is open for participants, accompanying persons and the public. Conference participants and accompanying persons are invited to an informal *gathering with light refreshments in the entrance hall of Aula Magna starting at 18:30 on Thursday July 24*. The lecture starts at 19:30.

STOCKHOLM CITY HALL RECEPTION

The City of Stockholm and the Stockholm County Council invite all ICPEAC participants and accompanying persons to a buffet-dinner reception in the City Hall on **Wednesday, July 23 at 19.00**. Stockholm City Hall is world famous for the Nobel banquet with the laureates, the Swedish Royal family, members of the Swedish Academies, the Swedish government, and other prominent guests from Sweden and abroad. The City Hall is beautifully set on the waterfront in central Stockholm. Please register for this event in advance.

SUNDAY VISIT TO SKANSEN WITH CONFERENCE DINNER

Skansen is the oldest open-air museum in the world and a zoological garden specialising mainly in the Nordic fauna. It is located on the island of Djurgården, a royal park near the centre of Stockholm. Skansen was created in 1891, by Arthur Hazelius (1833-1901), with the intent of showing how people lived and worked in different parts of Sweden in former times. Over the years, about 150 historic buildings - dating mostly from the 18th and 19th centuries - have been gathered from nearly every part of Sweden, representing a wide range of traditions and cultural values. Before the conference dinner at Restaurant Solliden, Skansen, you will be able to visit old-fashioned workshops and settings, such as glass factories, potteries, printing presses, and various old farms. From Restaurant Solliden, we will have the most impressive view of Stockholm. The program at Skansen and the conference dinner are included in the fees for Regular Participants, Regular Student Participants and full-paying Accompanying persons. This program starts at **17.00 on Sunday, July 27**, at the main entrance of Skansen. The dinner starts at 18:30.

THE SHELDON DATZ SYMPOSIUM

is organized in the memory of Sheldon Datz and his extraordinary contribution to the field of Photonic, Electronic, and Atomic Collisions (ICPEAC). The symposium starts with light refreshments at **18:30 on Monday, July 28**. The Sheldon Datz lecture by professor J.P. Toennies starts at 19:30.

ADDITIONAL SOCIAL PROGRAM

WEDNESDAY: ACCOMPANYING PERSONS OLD TOWN WALK

Gamla Stan translates to Old Town in English and is indeed the oldest part of the city of Stockholm. The origin of the name Stockholm is not completely clear, but it is generally believed that it comes from a combination of the words 'stock', which is Swedish for log, and 'holme' which means small island. The small island on which Old Town is built lies between the Baltic Sea and Lake Mälaren leaving only very narrow passages for transports on water. Archaeologists have found remains of underwater locks built of hundreds of logs around Old Town, probably used to control the very important ancient trade routes from the east and central Europe to the lake Mälaren. It is sometimes speculated that the lock at Stockholm was one of the important reasons to why the former main city of Sweden, Birka on an island in Lake Mälaren, was abandoned around 900 AD. The oldest historical record that refers to the name Stockholm is, however, more recent (13th century). The medieval character of Old Town remains intact. A walk through the narrow, cobbled streets and alleys, sensing the historical atmosphere and spirit of this fascinating Stockholm island, will give you a clear notion of what life must have been like centuries ago. Throughout the walk, your guide will also relate old stories and legends of the Old Town while showing you the charming small coffee shops cleverly built into the old cellar vaults, along with the antique shops and art galleries. The tour, which takes about 2 hours, starts at **two occasions on Wednesday, July 23 (at 10:00 and at 14:00)** from the Obelisk, Slottsbacken, next to the Royal Palace in the Old Town. **The tour is included in the registration fee for accompanying persons**, but be sure to make a reservation via the web (or on the registration form).

THURSDAY, FRIDAY OR SATURDAY; VISIT SVENSKT TENN - DESIGN STORE AND EXHIBITION

Svenskt Tenn, Strandvägen 5, is one of the leading interior design stores in Stockholm. The store specializes in furniture and fabrics with patterns created by the world-famous designer Josef Frank. In connection with the ICPEAC conference, the store invites participants and accompanying persons to an exclusive presentation of designers with products exhibited in the store. Due to limited space, the maximum number of persons that can

be welcomed to a single such event - which includes a small reception - is 35. Therefore, the reception is offered on three occasions – at **9:30 on Thursday, Friday and Saturday (July 24- 26)**. Due to the number limit, *the participants have to sign up for the visit one day in advance at the registration desk* at the conference. As the shop opens for the public at 10:00, the participants are free to look at the exhibition and will also have the possibility to buy high quality designer products. More information about the store and the products is given at <http://www.svenskttenn.se/>. **(There is no charge for this event)**.

FRIDAY ART TOUR TO MILLESGÅRDEN AND WALDEMARSUDDE

On **Friday, July 25, 13.30 – 17.30** this tour takes you by bus to two famous museums in Stockholm. **Millesgården** (The Garden of Milles) on Lidingö, the beautiful residential island immediately outside Stockholm city, was the home of the famous sculptor Carl Milles (1875-1955). The artist's most important and inspiring works are displayed here. The beautiful garden terraces also afford a magnificent view over the inlet to Stockholm from the Baltic Sea. Like most artists, Milles was a collector. His art collection is unique to Sweden and contains works from ancient Rome and Greece and from European Medieval and Renaissance art. These are also on display at Millesgården. We continue by bus to **Waldemarsudde**, the former home of Prince Eugen, known as the "Painter Prince". Waldemarsudde was bequeathed to the nation on the Prince's death in 1947. Here you can see another fine art collection, with the majority of works from the 19th century, including over a hundred paintings by Prince Eugen himself! Not surprisingly, Waldemarsudde lies in a breathtaking spot fit for a Prince. The house and magnificent gardens are themselves well worth a visit. The tour includes a coffee break, and it starts and ends at Aula Magna. The price for the tour is **480 SEK including sales tax**. Please, make a reservation via the web (or on the registration form). The minimum number of participants is 25. For more information on the museums see <http://www.millesgarden.se/uksubs.html> and www.waldemarsudde.com.

SATURDAY ARCHIPELAGO BOAT TOUR

Welcome on board M/s Gustafsberg VII, built in 1912 to enjoy a pleasant trip in the Stockholm archipelago. This tour will bring you to Waxholm, one of the well-known weekend spots in the inner archipelago of Stockholm. Waxholm is situated where the outer archipelago begins. You will enjoy a typical "Swedish Smörgåsbord" onboard (included in the price). The boat will leave Stockholm at **11:30 on Saturday July 26**. The price for the tour is **820 SEK including sales tax**. Please make a reservation via the web (or on the registration form). The tour departs from Nybrokajen, Nybroplan (in the inner city of Stockholm). The minimum number of participants is 80.

SUNDAY ICEPEAC EXCURSION TO DROTNINGHOLM

The Drottningholm Palace is situated just outside Stockholm and built in the 17th century, partly as a model of Versailles, with a beautiful lake-side view. The spectacular interiors of the Palace date from the 17th, 18th and 19th centuries, and are delightful combinations of the 18th century rococo style and Chinese influences. The Palace with its magnificent park is now the residence of the Royal Family. Next to the Palace is the 200-year old Court Theatre. The original scenery and stage machinery are still working and used for performances during the summer season. On the premises is also the Chinese Pavilion where king Gustav III (1746-1792), and his court spent their summer days. Originally this beautiful palace was a royal birthday present! The Drottningholm Palace and the Chinese Pavillion is a UNESCO World Heritage site. The tour is scheduled for **Sunday, July 27, 10.00 – 15:00**. We leave Stockholm by boat at 10:00 from Stadshusbron (next to the City Hall) - where a guide will meet you at the ticket office. We will then enjoy the beautiful scenery of lake Mälaren with its many islands during the one-hour trip to Drottningholm. The price for the whole tour is **360 SEK including sales tax but excluding entrance fees to the various attractions at Drottningholm**. It is also possible to have a quite walk in the beautiful park. A bus will take you back to Stockholm leaving Drottningholm at 14:00. Please, make a reservation via the web (or on the registration form). The minimum number of participants is 50. For more information see: www.royalcourt.se.

MONDAY UPPSALA AND SIGTUNA TOUR

The history of Uppsala, situated only 70 km from Stockholm, dates back more than 1000 years. Here we have Scandinavia's oldest university, founded in 1477, the Silver Bible from the 6th century, and an impressive cathedral. Before lunch we will depart for one of the oldest cities in Sweden, Sigtuna, a charming village with low wooden houses all in different colours, and ancient history dating back to the Vikings. This is in fact one of the richest regions for Runic Stones in the world. Lunch will be served in a nearby restaurant after which we will go on a guided walk through the village and then proceed back to Stockholm by bus. Lunch is included in the tour. The tour will start from Aula Magna at **10:00 on Monday July 28**. We expect to be back at the latest at 18:00. The price for the tour is **795 SEK including sales tax**. Please, make a reservation via the web (or on the registration form). The minimum number of participants is 25. For more information see: http://www.uppland.nu/turist/eng_index.html, <http://195.190.203.17/turism/eng/>.

TUESDAY VISIT TO THE VASA MUSEUM

Visit to the unique 17th Century Vasa Warship on **Tuesday, July 29 starting at 10.00** and ending at 12.30. This tour will begin with a visit to one of the most remarkable and awe-inspiring historical sights in the world – the Warship Vasa. The Vasa would have been Sweden's largest and most prestigious warship – the pride of the naval fleet and the Swedish nation. Her glory was however short-lived. Shortly after having set sail on her maiden voyage in 1628, she sank in Stockholm harbour. She spent the next 333 years lying on the bottom of the sea until she was finally located and raised from the water. The ship was found to be incredibly well-preserved and a painstaking operation to protect her from further damage has resulted in her taking pride of place in her own museum. The tour includes a coffee break. The meeting spot is outside the museum at approximately 9:45. The price for the tour is **240 SEK including sales tax**. Please, make a reservation via the web (or on the registration form). The minimum number of participants is 20. For more information on the Vasa museum see: <http://www.vasamuseet.se>.

HOTELS AND ACCOMMODATIONS

HOTEL INFORMATION

Hotels in different price categories have been preliminary reserved for the period of June 22 – 28, 2003. Stockholm Convention Bureau (StoCon) has been granted special rates for participants attending the XXIII ICPEAC. These special rates are only valid for reservation made through StoCon. All hotels offer private bath/shower/WC, telephone, radio, and TV. Note that breakfast and room taxes are included in the hotel room prices listed below. The hotels are situated within easy reach of the conference venue by subway or bus. Your reservation, preferably made through the web-site <http://www.physto.se/icpeac/> will be confirmed when StoCon has received your hotel deposit. If this is not possible use the attached ICPEAC registration form. **The hotel deposit must be received by June 23rd, 2003, at the latest.** After this date we cannot guarantee a room or the special ICPEAC rate. In order to fulfil your requirements, you are advised to make your room reservation at your earliest convenience, as we will serve on a 'first come-first serve' basis. There might be occasional discounts on hotel rooms in Stockholm during July on short notice. Such reservations cannot be made by Stocon. Participants are advised to use one of the offers below in order to secure a hotel room reservation and in order to enjoy the company of ICPEAC colleagues at breakfast. (For hotel location see the map on the inside of the back cover).

Hotels / Website	Prices in SEK/night		
	Single room	Double room	Deposit
<i>First class</i>			
Scandic Hotel Park / www.scandic-hotels.com	1,654	1,758	3,000
Hotel Birger Jarl / www.birgerjarl.se	1,090	1,395	3,000
Comfort Hotel Taptö / www.choicehotels.com	1,060	1,210	3,000
<i>Superior Tourist Class</i>			
Hotel Brunnen / www.hotelbrunnen.com	1,095	1,595	2,500
Rica City Hotel Kungsgatan / www.rica.cityhotels.se	890	1,220	2,500
Rica City Hotel Stockholm / www.rica.cityhotels.se	890	1,220	2,500
<i>Tourist Class</i>			
Hotel Oden / www.hoteloden.se	740	920	1,500
Hotel Arcadia / www.arcadia.elite.se	595	745	1,500

There is no official hotel nomenclature in Sweden and the hotels are grouped according to their different standards. All rates, in SEK, include breakfast buffet, service and VAT increments of 12%, and are given per room and night. Taxes are official charges and may thus be subject to changes (large changes are however very unlikely).

Reservations and payments

Your reservation will be confirmed when StoCon has received your hotel deposit. The prepaid deposit will be deducted from your hotel bill when you check out provided that you present the deposit voucher. This voucher will be given to you upon registration for ICPEAC 2003 in Stockholm. The amount remaining on your hotel bill (after deduction of the value of the voucher) will be settled by you directly with the hotel.

Inquiries and Cancellations

Any inquiries or requests for additional information, changes or cancellations of room reservations are to be addressed directly to the conference secretariat: Stockholm Convention Bureau, "ICPEAC 2003", Box 6911, SE-102 39 Stockholm, Sweden (Tel: +46 8 5465 1500 and Fax: +46 8 5465 1599). Hotel deposits will be refunded,

less an administration fee of SEK 300, for cancellations received in writing by StoCon before May 22, 2003. Hotel deposits for reservations made after May 22 are not refundable.

ACCOMMODATION IN YOUTH HOSTELS AND BED AND BREAKFAST

As no pre reservations are possible through Stockholm Convention Bureau, you are advised to contact the youth hostel or the bed & breakfast directly. Prices range from 200 to 300 SEK per night , excluding breakfast, sheets and towels. Sheets and towels are often rented out for a small fee, but be sure to check with your accommodation of choice. Some of the places below serve breakfast. Youth hostels (Vandrarhem) are for people of all ages and can usually offer "family rooms" with a few beds (2-4).

Långholmen Vandrarhem (Exceptional place: Remodelled prison!)

Address: Långholmen, Gamla Kronohäktet
Phone: + 46 8 668 05 00
Fax: + 46 8 720 85 75
www.langholmen.com

City Backpackers Hotel

Address: Upplandsgatan 2A
Phone: + 46 8 20 69 20
Fax: + 46 8 10 04 64
www.citybackpackers.se

Bed & Breakfast Service Stockholm

Phone: + 46 8 660 55 65
Fax: +46 8 663 38 22
E-mail: info@bedbreakfast.a.se
www.bedbreakfast.a.se

Af Chapman & Skeppsholmen (Exceptional place: Ship!)

Address: Skeppsbron
Phone: + 46 8 463 22 66
Fax: +46 8 611 71 55
www.stfchapman.com

Bed & Breakfast Center Stockholm

Phone: +46 8 730 00 03
Fax: + 46 8 730 52 14
E-mail: Stockholm@bbc.nu
www.bed-and-breakfast.se

Brygghusets Vandrarhem

Address: Norrtullsgatan 12N
Phone: +46 8 31 24 24
Fax: +46 8 616 81 20

Zinkensdamm Vandrarhem

Address: Zinkens väg 20
Phone: + 46 8 616 81 10
Fax: +46 8 31 02 06
www.zinkensdamm.com

ACCOMMODATION IN LOW BUDGET HOTEL

IBIS Hotel Stockholm Syd (the hotel is situated 8 km from the Stockholm centre with free car parking and about 10-15 minutes walking distance to the nearest subway station)

Address: Västertorpsvägen 131
Phone: +46 8 556 323 30
Fax: +46 8 97 64 27
booking@goodmorninghotels.se

TRAVEL AND TRANSPORTATION

AIR AND GROUND TRANSPORTATION TO STOCKHOLM

There are two airports in the Stockholm region. The main international airport is Arlanda (ARN), which is located approximately 40 km north of Stockholm city. In addition, there is a smaller airport, Bromma, which mostly is used for domestic traffic. Bromma, is situated 10 km west of Stockholm city. In addition there are train connections from neighbouring countries and the rest of Europe. There are fast trains operating between Gothenburg and Stockholm, and between Helsingborg and Stockholm. In addition there are ferryboats connecting to Finland, Russia, the Baltic countries, Poland, Germany and Denmark. For European participants planning to drive to Stockholm it is of course worthwhile to remember that there since a number of years is a toll bridge connecting Copenhagen (Denmark) and Malmö (Sweden). We expect, however, that a majority of the ICPEAC participants will arrive through Arlanda International airport (ARN). Arlanda is one of the busiest airports in Europe with flights to and from more than 150 cities in about 50 countries.

OFFICIAL AIRLINE CARRIER

Scandinavian Airlines Systems (SAS) has been appointed official carrier for the XXIII ICPEAC. For information on flights and special conference fares, please contact the nearest SAS office and refer to the event code: CFSE0305. Visit the website www.scandinavian.net or the conference website www.physto.se/icpeac for further information.

GROUND TRANSPORTATION FROM ARLANDA AIRPORT (ARN) TO STOCKHOLM CITY

Arlanda Airport is located approximately 40 kilometers north of Stockholm city. For details, see <http://www.arlanda.se> (available in English); this website also contains information on how to get to and from the airport. The main options are:

- 1, The fast train "Arlanda Express" (<http://www.arlandaexpress.com/english/index.htm>), which leaves Arlanda for Stockholm Central Station every 15 minutes at peak times. The central station serves long-distance trains, local commuter trains and the subway. The price for the train ticket is 160 SEK one way. You can buy train tickets in the Arlanda airport arrival halls and at the train station in Arlanda (and the Central Station). The fast train covers the distance between Arlanda and the Central Station in less than 25 minutes. Discount prices may be available in the summer season.
- 2, The Airport Buses/Coaches ("Flygbussarna"), which takes you from Arlanda airport to Stockholm Central Station and "Cityterminalen" in about 50 minutes are priced at 80 SEK for a one-way ticket. "Cityterminalen" is the end stop for the Airport buses and has a close, indoor, easy walking-distance connection to Stockholm Central Station. The bus tickets can be bought in the airport arrival halls and in the buses themselves (most credit cards are accepted on the bus). For more information about the buses see the web page: <http://www.flygbussarna.com/flygbussarna/en/index.html>.
- 3, The Airport buses can be combined with a taxi-ride. You may ask at the ticket office, or the bus driver, for a bus-taxi combination. At a price, which is much lower than for a taxi all the way, you will get a bus ticket and a taxi voucher which you will give to the driver of your reserved taxi at the "Cityterminalen". If your hotel, or final destination, is within the inner city limits the cost for the bus and the taxi together is 190 SEK. However, if you go outside for a certain distance there will be an extra charge. Up to four persons can share the taxi to the same destination. All four have to pay for the bus (80 SEK each), but the additional taxi fee (110 SEK) only has to be paid once. For more information on the bus-taxi combination see the web page: <http://www.flygbussarna.com/flygbussarna/en/index.html>
- 4, Taxis are available outside the terminals. You should ask to get a **fixed price**. This price depends slightly on taxi company, but the lowest fixed prices from Arlanda to the Central Station or inner city hotel is 350 SEK. It is very important to make a firm agreement about the fixed price with the driver. Several people can use the taxi for this fixed price provided the all go to the same address. There are usually many taxis waiting in line for costumers outside the Arlanda arrival halls. A uniformed representative of the taxi is there to help you if you have questions. Service charges are included in the prices, but sometimes people round off the payment to the nearest higher 10 or 20 SEK. The largest taxi companies at Arlanda are: Taxi Stockholm, tel: +46 8-15 00 00, Taxi Kurir, tel: +46 8-30 00 00, Taxi 020, tel: +46 20-93 93 93, Stockholm Transfer, tel: +46 8-33 20 00, Metro taxi, tel: +46 8-14 00 00, ABC taxi, tel: +46 8-660 60 20, Taxi Uppsala, tel: +46 18-10 00 00.
- 5, Several car rental companies (Avis, Europcar/Interrent, Hertz) are available at Arlanda Airport (see http://www.lfv.se/site/airports/arlanda/eng/tofrom/car_rental.asp). It is, however, rather expensive to park in Stockholm city and, further, the public transportation system is mostly rather effective and comparatively inexpensive.

LOCAL TRANSPORTATION WITHIN STOCKHOLM AND TO THE CONFERENCE VENUE

Stockholm inner city has a modern subway system, which is rather inexpensive and effective. We expect that most of the ICPEAC participants will arrive via Stockholm Central Station. In order to go to Aula Magna and ICPEAC from the Central Station please find the red subway line, take the train that has "Mörby Centrum" as its end station ("Mörby Centrum" appears on the light-boards above the platform when the train is approaching) and get off at the station "Universitetet". This subway station has one exit. After exiting, follow the ICPEAC-signs and take the walkway slightly to the right for about 100 meters and you will find ICPEAC 2003 registration and Aula Magna up the steps to your right. There are different options for buying subway tickets, which will give you a discount on the subway and on the buses (for a list of the ticket options we refer to <http://www.sl.se/international/>). Note that there are three-day (72 hour) passes, which gives you an unlimited number of subway and bus rides for 150 SEK (80 SEK for children under 12) during 72 hours. Tickets and passes are sold at the Central Station and at ticket counters and/or shops at other subway stations (however all ticket counters do not sell passes). The price for a one-way ride (paid in cash) between the Central Station and the University (ICPEAC venue) is about 25 SEK. (See the map on the inside of the back cover).

PRACTICAL INFORMATION

VISAS AND PASSPORTS

Conference participants are responsible for checking passport and visa requirements for travel to Sweden. Please check with the Swedish Embassy or Consulate if you are uncertain about the Swedish visa requirements for your country.

INSURANCE

Neither the ICPEAC organization nor the organizers will be responsible for any medical expenses incurred by participants and/or accompanying persons and will not accept any liability for personal injuries sustained, or for loss or damage of property belonging to conference participants, either during or as a result of the conference or any tours. Participants are strongly advised to secure their own health and travel insurances before leaving home.

SALES TAX (VAT) REFUNDS

Swedish sales tax may be refunded to foreign enterprises except banks, insurance companies and companies providing health care. Refunds are available for more or less all costs arising in business. Examples include travel and hotel costs in Sweden. Envelopes and forms will be available at the registration desk at the conference venue. The relevant documentation should be submitted after the conference. Please note that VAT may not be recovered for hotel-room charges paid to travel agents outside Sweden. Please also note that invoices and hotel bills must be made out in the enterprise's name, that there are certain cash limits applying in the case of entertainment, and that wines and spirits carry no entitlement to recovery of VAT.

CREDIT CARDS

Commonly accepted credit cards in hotels, restaurants and shops are American Express, Diners Club, Visa, MasterCard and Eurocard. Hotels, restaurants, shops, museums, taxis, etc often have signs showing which of the credit cards they accept.

CURRENCY

The Swedish currency is Swedish Kronor (SEK). For updated exchange-rate information visit www.forex.se. The present approximate rates are 9 SEK for 1 Euro or 1 USD.

BANKING AND CURRENCY EXCHANGE FACILITIES

Banks are in general open from 09.30 or 10:00 in the morning to 15.00 in the afternoon on weekdays. However, some banks in the city may have somewhat longer opening hours. Automatic teller machines are widely accessible. Currency exchange may be made at, for example, FOREX, which has one office located in the City Terminal ("Cityterminalen") with opening hours 08.00-21.00 on weekdays and 08.00 -16.00 on Saturdays. FOREX has a second office at Stockholm Central Station (train station), which is open 08.00 -21.00 every day. There are also currency exchange facilities at Arlanda airport with rather generous opening hours.

CLIMATE

The summer weather in Stockholm and Sweden is mostly sunny and pleasant with average temperatures around 20°C. It might be a good idea to bring a swimming suit, sunshades, sunscreen, and comfortable walking shoes. However, do also not forget to bring your umbrella, windbreaker and sweater. For updated information on climate and weather visit the website www.stockholmtown.com

ABOUT SWEDEN AND STOCKHOLM

For more information about Stockholm and Sweden visit the following websites:

www.stockholm.se	Information about Stockholm
www.stockholmtown.com	What's on in Stockholm
www.nobel.se	The Nobel Prize Archives
www.sverigeturism.se	What to see and where to stay in Sweden

TOURIST INFORMATION

For information, please contact the Tourist Centre in 'Sweden House' (Sverigehuset). Open Monday-Friday 09.00-18.00 and Saturday-Sunday 10.00-17.00.

Phone: + 46 8 789 24 95

Fax: +46 8 789 24 91

E-mail: info@stoinfo.se

SATELLITE AND RELATED MEETINGS

OFFICIAL ICPEAC SATELLITE MEETINGS

International Symposium on Atomic Cluster Collisions (ISACC 2003):

fission, fusion, electron, ion and photon impact

Scientific Chairman: Prof. Dr. Andrey V. Solov'yov

Place: the former Palace of Grand-Duke Vladimir (nowadays used as the House of Scientists) located in the heart of St. Petersburg, near the Hermitage Museum

Date: July 18 - July 21, 2003

Contact person: Prof. Dr. Andrey V. Solov'yov solovyov@rpro.ioffe.rssi.ru

A.F.Ioffe Physical-Technical Institute

Russian Academy of Sciences, Politechnicheskaya 26

St.Petersburg 194021, Russia

Tel: +7(812) 2479191, Fax: +7(812) 2479191 or +7(812) 2471017

<http://www.ioffe.ru/atom/ISACC2003/>

XVIII. International Seminar on Ion-Atom Collisions (ISIAC03)

Scientific Chairman: Prof. Dr. Nikolaus Stolterfoht

Co- chairmen: Prof. Dr. L. Kochbach and Prof. Dr. J P. Hansen

Place: Ship Serenade, Cruising from Stockholm to Helsinki and back

Date: July 30 to August 1, 2003

Contact person: Prof. Dr. Nikolaus Stolterfoht Stolterfoht@hmi.de

Hahn-Meitner Institute, Glienickestr. 100

D-14109 Berlin, Germany

<http://www.fi.uib.no/isiac/>

12th International Workshop on Low Energy Positron and Positronium Physics

Scientific Chairman: Prof. Dr. Helge Knudsen

Place: Sandbjerg (near Sonderborg), Denmark

Date: July 19 - July 21, 2003

Contact person: Prof. Dr. Helge Knudsen hk@phys.au.dk

Institute of Physics and Astronomy

University of Aarhus, DK 8000 Aarhus, Denmark

Phone: +46 8942 3607

<http://www.phys.au.dk/positron03/>

13th Intl. Symposium on Electron-Molecule Collisions and Swarms"

Scientific Chairman: Prof. Dr. Jiri Horacek

Place: Pruhonic near Prague

Date: July 30-August 1, 2003

Contact person: Prof. Dr. Jiri Horacek Jiri.Horacek@mff.cuni.cz

Tel: 00420-2-21912497 home: 00420-204-656353

Fax: 00420-2-21912496 or 00420-2-8468 5095

<http://ems2003.cuni.cz>

Twelfth International Symposium on Polarization and Correlation in Electronic and Atomic Collisions

Scientific Chairman: Prof. Dr. G. Friedrich Hanne

Physikalisches Institut der Universitaet Münster

Wilhelm-Klemm-Str. 10, 48149 Münster, Germany

Tel.: (0251)-83-33665; privat: (02534)-1486

Fax.: (0251)-83-33604

e-mail: hanne@uni-muenster.de

and

International Symposium on (e,2e), Double Photoionization and Related Topics

Scientific Chairman: Dr. Laurence Malegat

LIXAM (Laboratoire d'Interaction des X Avec la Matière)

UMR8624 du CNRS

Université Paris-Sud, Bat. 350, 91405 ORSAY Cedex, France

Tel: 00 33 1 69 15 75 03

Fax: 00 33 1 69 15 58 11

e-mail: Laurence.Malegat@lixam.u-psud.fr

Place: The two ICPEAC satellite conferences 'Twelfth International Symposium on Polarization and Correlation in Electronic and Atomic Collisions' and 'International Symposium on (e,2e), Double Photoionization and Related Topics' will be held near Frankfurt, Germany in the Königsteiner-Communication Center of the Dresdner Bank Corporation in Königstein/Taunus. The place is located on the southern slope of the Taunus mountains about 25 minutes away from the Frankfurt International Airport.

Date: July 30 - August 2, 2003.

Organizer:

Prof. Horst Schmidt-Böcking around
Institut für Kernphysik, August-Euler-Str. 6
60486 Frankfurt, Germany
Tel.: +49 69 798 24252
Fax.: +49 69 798 21601
e-mail: schmidtb@hsb.uni-frankfurt.de
<http://hsb.uni-frankfurt.de/>

RELATED MEETINGS

35th EGAS (European Group for Atomic Spectroscopy), Brussels, Belgium, 15 -18 July 2003.
(see: <http://www.ulb.ac.be/event/egas35/>)

XXVI International Conference on Phenomena in Ionized Gases, Greifswald, Germany, 15-20 July 2003 (see <http://www.icpig.uni-greifswald.de/>)

XIX Conference on the Dynamics of Molecular Collisions, Lake Tahoe, California, USA, 13-18 July 2003
(see <http://home.uchicago.edu/~ljb4/DMC2003.html>)

ABOUT THE ICPEAC 2003 LOGO

THE ICPEAC LOGO

The ICPEAC logo is inspired by a detail on a huge rock carving in the county just south of Stockholm (a picture of the carving can be found on <http://www.raa.se/kmb/showdetails.asp?id=1505&arpos=12>).

The inscription is dated to around year 1000 (AD) and tells the saga of how Sigurd kills the dragon. Sweden has more than 3000 known runic inscriptions, 2500 of them on stones. The area around Stockholm is particularly rich in runic stones. In the lower right corner of the logo, the acronym "ICPEAC" is written in runic letters. The letters of the runic alphabet consist of different combinations of straight lines, which are easy to carve in wood or stone. You can read more about runic stones on <http://www.raa.se/kmb/runstense.asp>.



As official airline we are pleased to welcome participants of the XXIII International Conference on Photonic, Electronic and Atomic Collisions July 23–29, 2003 aboard SAS.

We offer you a special conference fare in connection with this event.

To obtain this fare please quote your reference number CFSE0305.

www.scandinavian.net

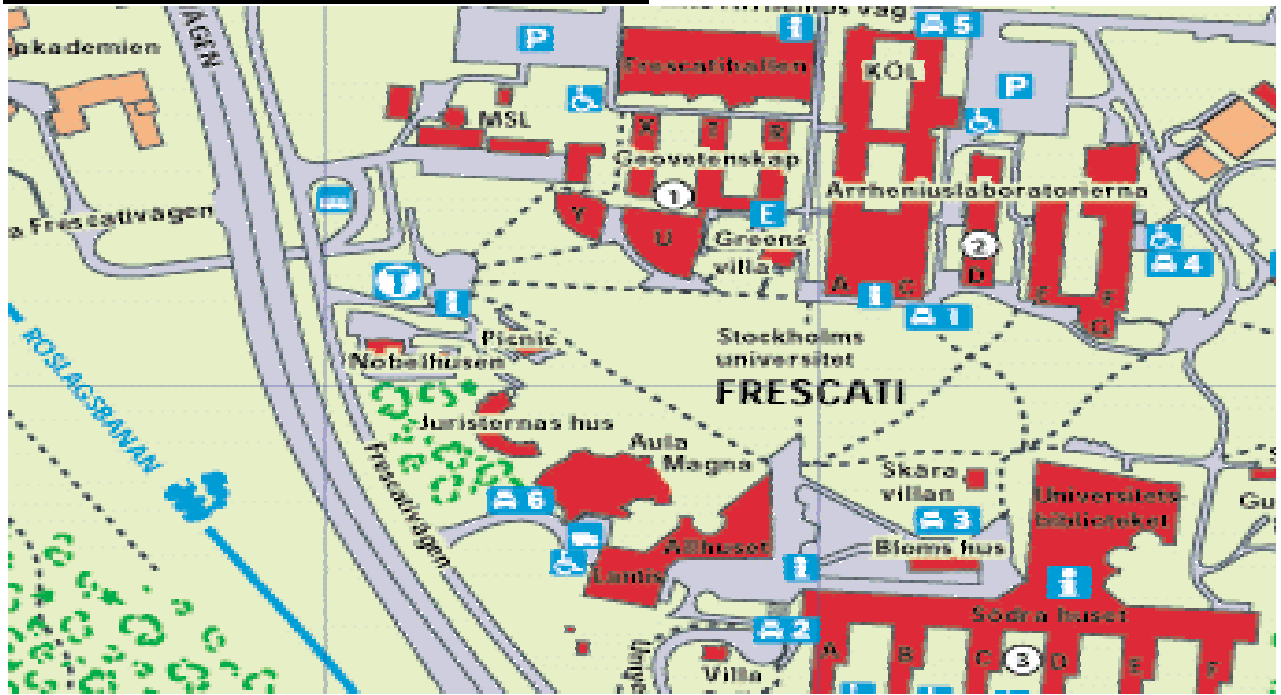
It's Scandinavian



A STAR ALLIANCE MEMBER 

Australia 02-9299 9800 Austria 01-680-554466 Belgium 02-643 69 12 Brazil 011-259 4300 China 10 6518 3738
Czech Republic 20 11 44 56 Denmark 3232 6859 Estonia 666 3030 Finland 0106-8000 France 0801 25 25 25
Germany 01803-234023 Hong Kong 2865 1370 Hungary 01-266 26 33 Ireland 01-844 54 40 Italy 02-7200 0193
Japan 0120 678 101 Latvia 7207 777 Lithuania 2 39 55 00 Netherlands 020-454 6500 Norway 8100 3300
Poland 22-826 12 12 Russia 095-925 4747 / 812-325 3255 Singapore 235 2488 Spain 91 454 6600
Sweden 020 727 111 Switzerland 022-929 7979 / 01-205 5070 Thailand 02-260 04 44 UK 0845 60 727 727
USA & Canada Toll Free 1-800 639 3849 Lyon Travel designated SAS Official Airline agent.

MAPS FOR ICPEAC 2003 IN STOCKHOLM:



The upper map shows details of the Conference Venue area with **Aula Magna (registration)** and the closest subway station ("Universitetet"). This area lies about two kilometers north on the northernmost part of the **Stockholm City** map (below). The hotels are marked in red: Comfort Hotel Tapto (1), Hotel Arcadia (2), Hotel Birger Jarl (3), Hotel Brunnen (4), Hotel Oden (5), Rica City Hotel Kungsgatan (6), Rica City Hotel Stockholm (7), Scandic Hotel Park (8). The Central Station and the City Terminal at which buses and trains from the airport arrive are marked with "B" in blue. Subway stations are marked with "T" and information desks with "i". Take the red subway line from the central station to the Conference venue. Most of the Youth Hostels listed in this Announcement lies slightly (1-2 km) south of the lower map.



The XXIII International Conference on Photonic, Electronic, and Atomic Collisions (ICPEAC 2003) will be held in Stockholm, Sweden (July 23-29, 2003). Here, we show some pictures relating to the Social Programs. Upper row: Drottningholm - the Sunday excursion goal (photo R Ryan) and a Stockholm race (photo Olof OH Holdar) – several races are organized in the summer season. Second row: Children at Skansen (photo Olof OH Holdar) – many participants will visit Skansen on Sunday evening (conference dinner), Brown bear at Skansen (photo M Andersson), and Midsummer dance (photo Skansen). Third row: Ice skaters (photo B Lind) – an activity enjoyed by many local physicists during the winter season, a Stockholm summer festival (photo D Larsson), and a squirrel at Skansen (photo M Andersson). Fourth row: Old Town at night and the warship Wasa in its museum (photo R Ryan).