

SECTION 8: APPENDICES

ACCESS TO MAJOR INTERNATIONAL X-RAY AND NEUTRON FACILITIES

APPENDICES:

- 1) **“Proposed Report” Statement from CISA to APS Board in November 2005**
(“Goals & Scope” document)
- 2) **List of Current Major Synchrotron X-Ray & Neutron Facilities**
- 3) **List of Future Major Synchrotron X-Ray & Neutron Facilities**
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Appendix 1

ACCESS TO MAJOR INTERNATIONAL FACILITIES

A PROPOSED REPORT BY THE COMMITTEE ON INTERNATIONAL SCIENTIFIC AFFAIRS AMERICAN PHYSICAL SOCIETY

PREAMBLE

In 2004, the Committee on International Scientific Affairs (CISA) of the APS decided to create subcommittees to investigate specific topics of an international nature that are projected to have a significant long-term impact on physics and related sciences. The ability to conduct world-class research depends increasingly on access to major scientific user facilities worldwide. CISA therefore decided to form a subcommittee to examine the evolving conditions for access to major international scientific user facilities and the projected international interdependence of major user facilities.

GOAL AND SCOPE OF THE STUDY

The central goal is to provide an assessment of the issues involved with access to major facilities for physics research. Terms of access to these facilities appear to be evolving. This evolution appears to be different in different fields of physics and in different regions of the world. The aim is to provide information on the conditions and requirements for getting experiments approved in different fields and in different regions of the world and to assess its impact on access for US physicists.

Specifically the study will examine the following questions related to access to major scientific facilities:

- What is the process and what are the conditions that must be met to get an experiment proposal approved? This includes the review process for proposals, possible requirements of collaboration with local scientists, acceptance of proposals from non-participating countries, success rates of proposals, etc.
- Are there issues with national security or visas for scientists trying to do experiments?
- Is use of the facility free of charge to the user for research that will be in the public domain?
- Have access issues for scientists doing experiments at the major scientific facilities changed significantly in the past 5-10 years and how are they expected to change in the next 5-10 years?

The study will survey current major scientific user facilities in the areas of nuclear and particle physics; and x-ray and neutron sources along with the associated user groups and societies to obtain information on the conditions for access as they impact the user. It will encompass major facilities throughout the world (not just the USA) and will present a users perspective. We chose not to include the facilities for inertially confined fusion and magnetically confined fusion at this time since they will be included in an ongoing review by the National Research Council as part of Plasma Physics 2010.

A report intended for the membership of the American Physical Society is envisaged. It will be, hopefully, of informational interest outside the APS.

Appendix 2

CURRENT MAJOR X-RAY AND NEUTRON FACILITIES

CURRENT MAJOR SYNCHROTRON FACILITIES

Asia/Pacific

Australian Synchrotron, Melbourne, Australia

Website: http://www.synchrotron.vic.gov.au/content.asp?Document_ID=1

Address: Level 17, 80 Collins St
Melbourne 3000 VIC Australia

Email: contact.us@synchrotron.vic.gov.au

Director: Robert Lamb, info@synchrotron.org.au

Start Date: 2007

Beijing Synchrotron Radiation Facility (BSRF), Beijing, China

Website: <http://www.ihep.ac.cn/bsrf/english/main/main.htm>

Address: Beijing Synchrotron Radiation Laboratory
Institute of High Energy Physics
Beijing, 100039
P.R.China

Director: Hu Tiandou, hutd@mail.ihep.ac.cn

Raja Ramanna Center for Advanced Technology (INDUS-1 & INDUS-2), Indore, India

Website: <http://www.cat.ernet.in/index.html>

Address: Raja Ramanna Centre for Advanced Technology
Department of Atomic Energy
Indore, M.P – 452 013
India

Director: Dr. Vinod Chandra Sahni, vcshahni@cat.ernet.in

INDUS-2 Contact: Sh. S. Kotaiah, Project Manager, Indus-2

P.O.: CAT, Indore – 452 013
Fax: +91-731-2488852
Email: [skt \(at\) cat.ernet.in](mailto:skt@cat.ernet.in)

National Synchrotron Radiation Laboratory (NSRL), Hefei, China

Website: <http://www.nsrl.ustc.edu.cn/en/>

Address: NSRL
University of Science and Technology of China
Hefei, Anhui
P.R. China

Director: He Duohui

Email: Office: gongxm88@ustc.edu.cn, nsrl@ustc.edu.cn

For users: zdh@ustc.edu.cn

National Synchrotron Radiation Research Center (NSRRC), Hsinchu, Taiwan, R.O.C

Website: <http://www.nsrrc.org.tw/>

Address: 101 Hsin-Ann Road
Hsinchu Science Park
Hsinchu 30076
Taiwan, R.O.C

Director: Keng S. Liang, ksliang@nsrrc.org.tw

Email: info@nsrrc.org.tw

Photon Factory (PF) at KEK, Tsukuba, Japan

Website: <http://pfwww.kek.jp/>

Address: Oho 1-1,
Tsukuba, Ibaraki, 305-0801
Japan

Director: Matsushita, Tadashi, tadashi.matsushita@kek.jp

Email: users.office@post.kek.jp

Pohang Accelerator Laboratory, Pohang, Korea

Website: <http://pal.postech.ac.kr/>

Address: San-31
Hyoja-dong
Pohang, Kyungbuk, 790-784
Korea

Director: Moonhor Ree, ree@postech.edu

Email: kischool@postech.ac.kr, kny1052@postech.ac.kr

Shanghai Synchrotron Radiation Facility (SSRF), Shanghai, China (2009)

Website: <http://www.sinap.ac.cn/english/index.html>

Address: Shanghai Institute of Applied Physics
Chinese Academy of Sciences
Shanghai, P.R. China

Director: Hongjie Xu, Xuhj@ssrc.ac.cn

Singapore Synchrotron Light Source (SSLS), Singapore

Website: <http://ssls.nus.edu.sg/>

Address: Singapore Synchrotron Light Source
National University of Singapore
5 Research Link
Singapore 117603
Singapore

Director: Herbert O. Moser, moser@nus.edu.sg

Super Photon Ring – 8 GeV (Spring8), Hyogo, Japan

Website: <http://www-xfel.spring8.or.jp/>
Address: Super Photon Ring – 8 GeV (Spring8)
RIKEN
Harima Institute
Hyogo 679-5148, Japan
Director: Hideo Kitamura
E-mail: sp8jasri@spring8.or.jp
Start Date: 2006

Europe

ANKA Synchrotron Strahlungsquelle, Karlsruhe, Germany

Website: <http://ankaweb.fzk.de/>
Address: Forschungszentrum Karlsruhe
Hermann-von-Helmholtz-Platz 1
76344 Eggenstein-Leopoldshafen
Germany
Director: Dr. Tilo Baumbach
E-mail: info@fzk.de

Berliner Elektronenspeicherring-Gesellschaft für Synchrotronstrahlung (BESSY), Berlin, Germany

Website: <http://www.bessy.de>
Address: BESSY GmbH, Albert-Einstein-Str.15
12489 Berlin
Germany
Director: Prof. Dr. Wolfgang Eberhardt, eberhardt@bessy.de

Centre Laser Infrarouge d'Orsay (CLIO), Orsay, France

Website: <http://clio.lcp.u-psud.fr/>
Address: CLIO/LCP
Bat. 201 - P2
Campus Universitaire
91405 ORSAY Cedex
France

DAFNE Light Laboratory, Rome, Italy OMIT not user facility

Website: http://www.Inf.infn.it/esperimenti/sr_dafne_light/
Address: INFN-LNF, Via Enrico Fermi 40
00044, Frascati (RM)
Italia
Director: Antonio Grilli, Antonio.Grilli@Inf.infn.it

Diamond Light Source, United Kingdom

Website: <http://www.diamond.ac.uk/default.htm>

Address: Diamond House
Chilton
Didcot
Oxfordshire
OX11 0DE

Director: Professor Gerd Materlik

Email: dlsenquiries@diamond.ac.uk

Start Date: 2007

Dortmund Electron Test Accelerator (DELTA), Dortmund, Germany

Website: <http://www.delta.uni-dortmund.de/index.php?id=2&L=1>

Address: Institut für Beschleunigerphysik und Synchrotronstrahlung
Universität Dortmund
Maria-Goeppert-Mayer-Str. 2
44221 Dortmund
Germany

Director: Prof. Dr. Metin Tolan, tolan@physik.uni-dortmund.de

Elettra Synchrotron Light Source, Trieste, Italy

Website: <http://www.elettra.trieste.it/index.php>

Address: Incrotrone Trieste S.C.p.A. di interesse nazionale
Strada Statale 14 – km 163,5 in AREA Science Park
34012 Basovizza, Trieste
Italy

Director: Alfonso Franciosi (Chief Executive Officer)

Email: info@elettra.trieste.it, useroffice@elettra.trieste.it

European Synchrotron Radiation Facility (ESRF), Grenoble, France

Website: <http://www.esrf.fr/>

Address: ESRF
6 Rue Jules Horowitz
BP 220
38043 Grenoble Cedex 9
France

Director: W.G. Stirling, stirling@esrf.fr

Hamburger Synchrotronstrahlungslabor (HASYLAB) at DESY,

Hamburg, Germany (site of DORIS III, FLASH, XFEL)

Website: <http://www-hasylab.desy.de/>

Address: DESY – HASYLAB
Notkestrasse 85
22607 Hamburg
Germany

Director: Prof. Dr. Edgar Weckert, edgar.weckert@desy.de

MAX-lab, Lund, Sweden
Website: <http://www.maxlab.lu.se/>
Address: MAX-lab
Box 118
22100 Lund
Sweden
Director: Nils Mårtensson, nils.martensson@maxlab.lu.se

Siberian Synchrotron Radiation Centre (SSRC) – VEPP 3/VEPP 4, Novosibirsk, Russia
Website: <http://ssrc.inp.nsk.su/>
Address: SSRC
Lavrentyev av. 11
Budker INP
Novosibirsk 630090
Russia
Director: Academician Gennady N. Kulipanov, G.N.Kulipanov@inp.nsk.su

Source Optimisée de Lumière d'Energie Intermédiaire du LURE (SOLEIL), France
Website: <http://www.synchrotron-soleil.fr/anglais/>
Address: L'Orme des Merisiers
Saint-Aubin - BP 48
91192 Gif-sur-Yvette Cedex

Swiss light source (SLS) at the Paul Scherrer Institut
Website: <http://sls.web.psi.ch/>
Address: Paul Scherrer Institut
User Office
5232 Villigen-PSI
Switzerland
Director: Friso van der Veen, friso.vanderveen@psi.ch

Synchrotron Radiation Source (SRS), Daresbury, U.K.
Website: <http://www.srs.ac.uk/srs/>
Address: SRS
CCLRC Daresbury Laboratory
Warrington, Cheshire
U.K. WA4 4AD
Director: Dr. Tracy Turner, t.s.turner@dl.ac.uk

North America

Advanced Light Source (ALS), Berkeley, California, USA
Website: <http://www-als.lbl.gov/>
Address: ALS

Berkeley Lab
1 Cyclotron Rd
MS 80R0114 (For Kirz)
Berkeley, CA 94720
Director: Roger Falcone
Email: alsuser@lbl.gov

Advanced Photon Source (APS), Argonne, Illinois, USA

Website: <http://www.aps.anl.gov/>
Address: APS
Argonne National Laboratory
9700 S. Cass Avenue
Argonne, IL 60439
Director: J.M. Gibson, jmgibson@aps.anl.gov
Email: apsuser@aps.anl.gov

Canadian Light Source (CLS), Saskatoon, Canada

Website: <http://www.lightsource.ca/>
Address: Canadian Light Source Inc.
University of Saskatchewan
101 Perimeter Road
Saskatoon, SK.
Canada. S7N 0X4
Director: William Thomlinson, william.thomlinson@lightsource.ca
Email: cls@lightsource.ca
Start Date: 2004
Beamlines: 7, plus 7 more projected in the future

Cornell High Energy Synchrotron Source (CHESS), Ithaca, New York, USA

Website: <http://www.chess.cornell.edu/>
Address: Cornell High Energy Synchrotron Source
200L Wilson Lab
Rt. 366 & Pine Tree Road
Ithaca, NY 14853
Director: Sol Gruner, smg26@cornell.edu

National Synchrotron Light Source (NSLS), Brookhaven, New York, USA

Website: <http://www.nsls.bnl.gov/>
Address: NSLS Chairman's Office
Brookhaven National Laboratory
P.O. Box 5000, Bldg. 725B
Upton, NY 11973-5000
Director: Steven Dierker, dierker@bnl.gov
Email: Chairman's Office: ljmiller@bnl.gov

Stanford Synchrotron Radiation Laboratory (SSRL), Menlo Park, California, USA

Website: <http://www-ssrl.slac.stanford.edu/>

Address: Stanford Linear Accelerator Center
2575 Sand Hill Road
Menlo Park, CA 94025

Director: Joachim Stöhr, Stohr@ssrl.slac.stanford.edu

Email: knotts@SLAC.Stanford.edu

Synchrotron Radiation Center (SRC), Madison, Wisconsin

Website: <http://www.src.wisc.edu/>

Address: Synchrotron Radiation Center
3731 Schneider Dr.
Stoughton, WI 53589-3097

Director: Joseph Bisognano, jbisognano@src.wisc.edu

South America

Laboratorio Nacional de Luz Síncrotron (LNLS) Sao Paulo, Brazil

Website: <http://www.lnls.br/>

Address: Caixa Postal 6192
CEP 13084-971
Campinas, SP
Brazil

Director: José Antônio Brum, brum@lnls.br

Email: secre@lnls.br

CURRENT MAJOR NEUTRON FACILITIES

Asia/Pacific

DHRUVA Research Reactor, Trombay, India

Website: <http://www.barc.ernet.in/>

Address: Bhabha Atomic Research Centre,
Trombay,
Mumbai - 400 085
India

Director: Mr. S.K. Sharma, sksharma@apsara.barc.ernet.in

High-flux Advanced Neutron Application Reactor (HANARO), Taejon, South Korea

Website: <http://hanaro.kaeri.re.kr/english/index.html>

Address: P.O. Box 105
Tokchin-dong, Yusong-ku
Taejon, 305-600
South Korea

Director: Young-Jin Kim, youkim@kaeri.re.kr

ISSP Neutron Science Laboratory, Kashiwa, Japan

Website: http://neutrons.issp.u-tokyo.ac.jp/?easiestml_lang=en
Institute associated with JRR-3 below

Address: Kashiwanoha 5-1-5
Kashiwa 277-8581
Japan

Director: Hideki Yoshizawa

Email: wnabe@issp.u-tokyo.ac.jp

Japan Research Reactor 3 (JRR-3), Japan

Website: <http://www.issp.u-tokyo.ac.jp/labs/neutron/jrr3/>

Address: Department of Research Reactor
Japan Atomic Energy Research Institute (JAERI)
Tokai Research Establishment
Tokai, Ibaraki-Ken, 319-1195
Japan

Email: issiki@jrr3fep2.tokai.jaeri.go.jp

Director: Takashi Kamiyama, takashi.kamiyama@kek.jp

Open Pool Australian Light-Water Reactor (OPAL), Lucas Heights, Australia

Website: <http://www.ansto.gov.au/opal.html>

Address: Australian Nuclear Science and Technology Organisation
Lucas Heights, New South Wales
Australia

Email: enquiries@ansto.gov.au

Start Date: 2007

Europe

Forschungsneutronenquelle Heinz Maier-Leibnitz (FRM-II), Munich, Germany

Website: <http://www.frm2.tum.de/>
Address: ZWE FRM-II
Lichtenbergstraße 1
85747 Garching
Director: Prof. Dr. Winfried Petry, winfried.petry@frm2.tum.de
Email: userinfo@frm2.tum.de

Frank Laboratory of Neutron Physics (FLNP), Dubna, Russia

Website: <http://nfdfn.jinr.ru/>
Address: Frank Laboratory of Neutron Physics
Joint Institute for Nuclear Research
141980 Dubna, Moscow Region
Russian Federation
Director: Belushkin Aleksandr Vladislavovich, belushk@nf.jinr.ru

GKSS Geesthacht, Geesthacht, Germany

Website: http://www.gkss.de/index_e_js.html
Address: Postfach 1160
21949 Geesthacht
Germany
Director: Prof. Dr. Wolfgang A. Kaysser, wolfgang.kaysser@gkss.de

Hahn-Meitner Institute, Berlin, Germany

Website: http://www.hmi.de/index_en.html
Address: HMI
Glienicke Str. 100
14109 Berlin
Director: Michael Steiner, Steiner@hmi.de
Email: robertson@hmi.de

Institut Laue-Langevin (ILL), Grenoble, France

Website: <http://www.ill.eu/>
Address: BP 156
6, rue Jules Horowitz
38042 Grenoble Cedex 9
France
Director: Richard Wagner, wagner@ill.eu
Email: welcome@ill.eu

Interfacultair Reactor Institute (IRI), Delft, The Netherlands

Website: <http://wwwtest.iri.tudelft.nl/>

Address: Reactor Institute Delft
Mekelweg 15, 2629 JB Delft
Netherlands

Director: Dr. T.H.J.J. van der Hagen
Email: secretary-rid@iri.tudelft.nl

ISIS - Rutherford Appleton Laboratory, United Kingdom

Website: <http://www.isis.rl.ac.uk/>
Address: ISIS Pulsed Neutron & Muon Source
Rutherford Appleton Laboratory
Chilton
Didcot OX11 0QX
United Kingdom

Director: Andrew Taylor, Andrew.Taylor@rl.ac.uk

KFKI, Budapest, Hungary

Website: <http://www.kfki.hu/indexeng.html>
Address: KFKI
Hungarian Academy of Sciences
H-1525 Budapest 114, P.O.B. 49

Leon Brillouin Laboratory, Gif-sur-Yvette, France

Website: http://www-llb.cea.fr/index_e.html
Address: CEA Saclay
Bâtiment 563
91191 Gif-sur-Yvette cedex
France

Director : Philippe Mangin, Mangin@lpm.u-nancy.fr

Swiss spallation neutron source (SINQ) at the Paul Scherrer Institute

Website: <http://sinq.web.psi.ch/>
Address: Paul Scherrer Institut
User Office
5232 Villigen-PSI
Switzerland

Director: Kurt N. Clausen, kurtclausen@psi.ch

Petersburg Nuclear Physics Institute, Gatchina, Russia

Website: <http://www.pnpi.spb.ru/>
Address: PNPI RAS Gatchina
Leningrad District 188300
Russia

Acting Director: Vladimir M. Samsonov

North America

The Canadian Neutron Beam Centre (CNBC), Ontario, Canada

Website: <http://neutron.nrc-cnrc.gc.ca>
Address: National Research Council Canada
Building 459, Station 18
Chalk River Laboratories
Chalk River, Ontario
Canada K0J 1J0
Director: John Root, John.Root@nrc.gc.ca

High Flux Isotope Reactor (HFIR), Oak Ridge, Tennessee

Website: <http://neutrons.ornl.gov/>
Address: HFIR Center for Neutron Scattering
Oak Ridge National Laboratory
P.O. Box 2008
Oak Ridge, TN 37831
Executive Director: Kelly Beierschmitt

Intense Pulsed Neutron Source (IPNS), Argonne National Laboratory, Illinois

Website: <http://www.pns.anl.gov/>
Address: IPNS
Argonne National Laboratory
9700 S. Cass Ave
Argonne, IL, 60439-4814
Director: Raymond Teller, rgteller@anl.gov
Close Date: December 2007

Manuel Lujan Jr. Neutron Scattering Center at LANSCE, Los Alamos Natl. Laboratory

Website: <http://lansce.lanl.gov/lujan/index.html>
Address: Manuel Lujan Jr. Neutron Scattering Center at LANSCE
Los Alamos National Laboratory
P.O. Box 1663
Los Alamos, NM 87545
Director: Alan J. Hurd, ajhurd@lanl.gov

National Institute of Standards and Technology Reactor (NIST), Gaithersburg, Maryland

Website: <http://www.ncnr.nist.gov/>
Address: NIST Center for Neutron Research
Materials Science and Engineering Laboratory
National Institute of Standards and Technology
100 Bureau Drive, MS 8562
Gaithersburg, MD 20899-8562

Director: Patrick Gallagher, patrick.gallagher@nist.gov

Spallation Neutron Source (SNS)

Website: <http://www.sns.gov>

Address: SNS
P.O. Box 2008 MS6477
Oak Ridge, TN 37831-6477

Director: Ian S. Anderson, andersonian@ornl.gov

Appendix 3

FUTURE MAJOR SYNCHROTRON X-RAY AND NEUTRON FACILITIES

FUTURE MAJOR SYNCHROTRON X-RAY FACILITIES

Asia/Pacific

Spring-8 Compact SASE Source (SCSS)

Website: <http://www-xfel.spring8.or.jp/>
Address: Super Photon Ring – 8 GeV (Spring8)
RIKEN
Harima Institute
Hyogo 679-5148, Japan
E-mail: sp8jasri@spring8.or.jp

Europe

ALBA Synchrotron Light Facility, Cerdanyola del Vallès, Spain

Website: <http://www.cells.es/>
Address: Consorcio para la Construcción, Equipamiento y Explotación del
Laboratorio de Luz de Sincrotrón
Apartado De Correos 68
08193 Bellaterra
Spain
Start Date: 2008
Beamlines: 7 (Projected Number)

Petra III, Hamburg, Germany

Website: <http://petra3.desy.de/>
Address: Deutsches Elektronen-Synchrotron DESY
Notkestraße 85
22607 Hamburg
Germany
Email: petra3@desy.de
Start Date: 2009
Beamlines: 14 (Projected Number)

FLASH, Hamburg, Germany

Website: <http://hasylab.desy.de/facilities/flash/>
Address: Deutsches Elektronen-Synchrotron DESY

Notkestraße 85
22607 Hamburg
Germany
Email: hasylab@desy.de
Start Date: October 2008
Beamlines: 4 (Current)

Paul Scherrer Institut X-ray Free Electron Laser Project (PSI X-FEL), Switzerland

Website: <http://fel.web.psi.ch/>
Address: Paul Scherrer Institut
User Office
5232 Villigen-PSI
Switzerland

Start Date: Design Studies, Full proposal submission: 2011

The European X-ray Laser Project X-ray Free-Electron Laser (XFEL), Hamburg, Germany

Website: <http://www.xfel.net/en/>
Address: Deutsches Elektronen-Synchrotron DESY
Notkestraße 85
D-22607 Hamburg
Germany

Start Date: Construction to begin in 2007; commissioning of the facility could start in 2013.

Middle East

Synchrotron-light for Experimental Science and Applications in the Middle East (SESAME), Jordan

Website: <http://www.sesame.org.jo/Contact/mail.aspx>
Address: Al-Balqa Applied University
Salt - 19117
Jordan

Director: Herwig Schopper, herwig.schopper@cern.ch
Start Date: 2007
Beamlines: 6 (Projected Number), Plus 6 more in the future

North America

CHESS-ERL Source

(Has not been approved for funding yet)

Website: <http://erl.chess.cornell.edu/>
Address: Energy Recovery Linac (ERL)
Cornell High Energy Synchrotron Source
200L Wilson Lab
Rte 366 & Pine Tree Road

Ithaca, NY 14853
Director: Principal Investigator: Sol Gruner, smg26@cornell.edu

Coherent Infrared Center Advanced Light Source (CIRCE), Berkeley, California
(Has not been approved for funding yet)

Website: <http://circe.lbl.gov/>
Address: Advanced Light Source
Berkeley Lab
Berkeley, CA 94720

Jefferson Lab (JLab) FEL, Virginia

(not been approved for funding yet. Web site indicates FEL closed in May 2007 for upgrades and will reopen in March 2008.)

Website: <http://www.jlab.org/FEL>
Address: 12000 Jefferson Avenue
Newport News, Virginia 23606

Linac Coherent Light Source (LCLS), Stanford, California, USA

Website: <http://www-ssrl.slac.stanford.edu/lcls/>
Address: Stanford Linear Accelerator Center (SLAC)
2575 Sand Hill Road MS 18
Menlo Park, CA 94025

Director: John Galayda, galayda@slac.stanford.edu
Email: lcls@slac.stanford.edu
Start Date: 2009

NSLS-II (National Synchrotron Light Source II), Upton, New York

Website: <http://www.nsls2.bnl.gov/>
Address: NSLS-II Project Office
Brookhaven National Laboratory
Building 817
P.O. Box 5000
Upton, NY 11973-5000

Director: Steven Dierker, dierker@bnl.gov
Start Date: 2012

SYNCHROTRON FACILITIES THAT WILL BE UPGRADED

Europe

MAX (Sweden) planning an upgraded new facility date unknown
MAX IV Project?

ESRF (Grenoble) Major upgrade is planned and funding is being negotiated.

North America

APS (Argonne National Laboratory) is planning an upgrade as an ERL.

FUTURE MAJOR NEUTRON FACILITIES

Asia/Pacific

JAERI-KEK Joint Facility for High-Intensity Proton Accelerators (J-PARC)

Website: <http://j-parc.jp/en/message.html>
Address: Japan Atomic Energy Agency
J-PARC Center
2-4 Shirane Shirakata, Tokai-mura
Naka-gun, Ibaraki 319-1195
Japan

Director: Shoji Nagamiya

Note: Successful completion is scheduled for 2008. JSNS is also part of this project.

PIK High-Flux Reactor, St. Petersburg, Russia (still under construction?)

Website: http://nrd.pnpi.spb.ru/facilities/menu_pik.html
Address: Petersburg Nuclear Physics Institute (PNPI)
Russian Academy of Sciences
Gatchina
Russia

Director: Valery V. Fedorov

Email: imshes@pnpi.spb.ru

Chinese Advanced Research Reactor (CARR), Beijing, China

Website: <http://www.ciae.ac.cn>
Address: China Institute of Atomic Energy (CIAE)
P.O. Box 275-30
Beijing 102413
People's Republic of China

Start date: 2008

Chinese Spallation Neutron Source (CSNS), Beijing, China

Website: <http://www.ciae.ac.cn>
Address: China Institute of Atomic Energy (CIAE)
P.O. Box 275-30
Beijing 102413
People's Republic of China

Start date: 2011

Europe

European Spallation Source, Proposed but not yet funded

Website: <http://essi.neutron-eu.net/essi>

Address: Institut Laue-Langevin
BP 156
6, rue Jules Horowitz
38042 Grenoble Cedex 9
France

Director: Peter Tindemans

NEUTRON FACILITIES THAT WILL BE UPGRADED

Europe

Institut Laue-Langevin, Grenoble, France

Upgrades to be finished in 2008

Number of Instruments: 50 (no net increase)

ISIS Facility, Rutherford Appleton Lab, United Kingdom

Second target station under construction, to be finished in October 2008.

Number of Instruments: 30, seven of which are being added in expansion.

Appendix 4

Questionnaire on Access to Major International Facilities

Synchrotron and Neutron Facilities

The Committee on International Scientific Affairs (CISA) of the American Physical Society is undertaking a study of access to major international facilities in the fields of Particle Physics, Nuclear Physics and Condensed Matter and Materials Science taken broadly. In the latter field we are restricting ourselves to synchrotron and neutron facilities. The goal is to identify trends in the terms of access to major facilities. In the study CISA would like to include the major synchrotron and neutron scattering facilities, particularly those that have a well established user program with regular calls for proposals that are ranked by proposal review committees. As part of the study, we would be most grateful if you, as a major facility, would complete the questionnaire below that is intended for neutron and synchrotron sources. The findings of this study will be available to the international scientific community.

Please Note: Form fields in red are required.

Facility

Contact Email

1. Please classify your facility as

A national facility (supported financially predominantly by one nation).

A multinational facility (supported financially by more than one nation).

Other (please explain)

2. Does your facility receive proposals for experiments and are these proposals reviewed by Proposal Review Committees?

Yes

No

3. Please provide an estimate of your

(1) No. of instruments listed in the proposal program

(2) Annual operating budget

4. Please provide data on the number of proposals submitted and accepted for years 1998 and 1999 and 2004 and 2005.

Year	Proposals Submitted	Proposals Accepted
1998		
1999		
2004		
2005		

5. Please provide data on number of users for the years 1998 and 1999 and 2004 and 2005.

Year	Number of Users (An individual counted once only per year)	Number of Users Visits (Multiple Visits per Year Counted)
1998		
1999		
2004		
2005		

If a different classification is used, please provide:

What percentage of users sends their samples for approved experiments by courier/mail and is not present at the experiment? %

6. What percent of the instruments at your facility are dedicated to (or supported by) specific groups (e.g. PRTs) that have a separate proposal program or no proposal program? %
7. On dedicated instruments, what percent of time is set aside for the dedicated group?
 % for group
 % available to general users via a proposal program
 % others

If clarification or explanation is required, please provide:

8. Please list (1) the percentage of beam time devoted to experiments arising from accepted proposals and PRTs and (2) the percentage of beam time allocated for experiments initiated by facility scientists.

Year	Percentage of beam time devoted to proposal program or PRT experiments	Percentage of beam time allocated to facility scientists
1998	%	%
1999	%	%
2004	%	%
2005	%	%

9. Do the scientists and engineers that conduct experiments at your facility have a user organization? Yes No
10. Can you provide a contact name for this user organization?
11. Is use of the facility free of charge to the user for research that will be in the public domain? Yes No
12. Is the travel and accommodation of users from the nation (or the consortium of nations) supported by the facility? Largely Partially Not at all
13. If the facility is multinational, is there an eventual balancing of experimental time allocated to users from nations within the consortium based on financial support of the facility by consortium members? Yes Some No

14. Are proposals from applicants who are resident outside the country (or outside the consortium of countries) considered within the regular proposal program and reviewed by the same

committees? Yes No

If no, how are they considered?

If yes, how are foreign (or non-consortium member) proposals considered?

- with the same priority as others
- a reasonable percentage is allocated to foreign users
- collaboration with a scientist(s) from the nation (or consortium) is required

15. Do scientists from outside the nation (or consortium) serve on program committees?

Yes No

16. Are statistics maintained of use of the facility by foreign (or non-consortium) applicants?

Yes No

If yes, could you please list the percentage of beam time used in which

1. a foreign national is a team member %
2. a foreign national is a team leader/PI/spokesperson %

If you prefer to provide data in an alternate format, please provide a definition of the values provided:

17. Are there visa requirements or laboratory security requirements that foreign nationals must meet

before access is permitted? Yes No

If yes, please explain:

18. In the past 3 years have any national security or visa requirements limited foreign scientists in running experiments? Yes No

If yes, can you estimate how many foreign scientists have been denied access to the facility in the following years?

2003

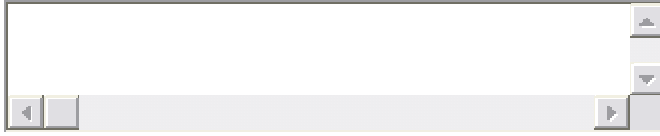
2004

2005

19. Is there a trend toward multinational (consortium facilities) and away from national facilities in

your country (or region)? Yes No

If yes, please elaborate:



Appendix 5

Questionnaire for User Groups and Societies on Access to Major International Facilities

Synchrotron and Neutron Facilities

The Committee on International Scientific Affairs (CISA) of the American Physical Society is undertaking a study of access to major international facilities in the fields of Particle Physics, Nuclear Physics and Condensed Matter and Materials Science taken broadly. In the latter field we are restricting ourselves to synchrotron and neutron facilities. The goal is to identify trends in the terms of access to major facilities. In the study CISA is including only major synchrotron and neutron scattering facilities that have a well established user program with regular calls for proposals that are ranked by proposal review committees. As part of the study, we would be most grateful if you, as representatives of users of the facilities, would complete the questionnaire below. The aim is to identify the goals of your society and those features that you find make a facility attractive to users. The findings of this study will be available to the international scientific community.

Please Note: Form fields in red are required.

User Group or Society Name

Contact Email

Please indicate whether your institution is a:

- User Group
- Society
- Other

Explain:

Approximately how many members does your group/society have?

A) GOALS AND ACTIVITIES OF YOUR USER GROUP/SOCIETY

Please Rank from 4 to 1 (4 being the top score) the importance of the following goals and activities of your group/society:

1. Provides a feedback mechanism for users to the facility or facilities 1 2 3 4

- 2. Holds regular meetings of members 1 2 3 4
- 3. Actively lobbies on behalf of facilities and/or science 1 2 3 4
- 4. Oversees proposal/experiment time allocation 1 2 3 4
- 5. Reviews/provides oversight of facility on behalf of users 1 2 3 4

B) PRACTICES OF USER FACILITIES

Please Rank from 4 to 1 (4 being the top score) the importance of the following features at a high quality user facility from the viewpoint of the group you represent:

- 1. Uniqueness of facility, source details and /or specific instruments 1 2 3 4
- 2. Reliability of facility operation 1 2 3 4
- 3. Availability of Sample environment equipment 1 2 3 4
- 4. Good technical personnel and lab support available at the facility 1 2 3 4
- 5. Reasonable success rate of submitted proposals 1 2 3 4
- 6. Regular, well publicized call for proposals 1 2 3 4
- 7. Accurate and complete information on access to the facility 1 2 3 4
- 8. Equitable proposal review process with external reviewers 1 2 3 4
- 9. Ease of travel to site 1 2 3 4
- 10. Good accommodations on site for housing/food 1 2 3 4
- 11. Other:

Appendix 6

SYNCHROTRON and NEUTRON FACILITIES that PARTICIPATED in the APS SURVEY

Synchrotron Facilities

Asia

Beijing Synchrotron Radiation Facility (BSRF)

Institute of High Energy Physics

Beijing

P.R. China

Pohang Accelerator Laboratory

San-31

Hyoja-dong

Pohang, Kyungbuk, 790-784

Korea

Super Photon Ring - 8 GeV (SPring8)

1-1-1 Kouto, Sayo-cho, Sayo-gun

Hyogo 679-5198

Japan

Europe

Berliner Elektronenspeicherring-Gesellschaft für Synchrotronstrahlung (BESSY)

BESSY GmbH, Albert-Einstein-Str.15

12489 Berlin

Germany

Elettra Synchrotron Light Source

Sincrotrone Trieste S.C.p.A. di interesse nazionale

Strada Statale 14

34012 Basovizza, Trieste

Italy

European Synchrotron Radiation Facility (ESRF)

6 Rue Jules Horowitz

BP 220

38043 Grenoble Cedex 9

France

Hamburger Synchrotronstrahlungslabor (HASYLAB) at DESY

DESY - HASYLAB

Notkestrasse 85

22607 Hamburg

Germany

MAX-lab, Lund University

Box 118

22100 Lund

Sweden

Siberian Synchrotron Radiation Centre (SSRC)

Lavrentyev av. 11

Budker INP

Novosibirsk 630090

Russia

Swiss Light Source (SLS)

Paul Scherrer Institut reception building

PSI West

CH-5232 Villigen PSI

Switzerland

Synchrotron Radiation Source (SRS)

CCLRC Daresbury Laboratory

Warrington, Cheshire

U.K. WA4 4AD

North America

Advanced Light Source (ALS)

Berkeley Lab

1 Cyclotron Rd

Berkeley, California 94720

USA

Advanced Photon Source (APS)

Argonne National Laboratory

9700 S. Cass Avenue

Argonne, Illinois 60439

USA

Cornell High Energy Synchrotron Source (CHESS)

200L Wilson Lab
Rt. 366 & Pine Tree Road
Ithaca, New York 14853
USA

National Synchrotron Light Source (NSLS)

Brookhaven National Laboratory
P.O. Box 5000, Bldg. 725B
Upton, New York 11973-5000
USA

Stanford Synchrotron Radiation Laboratory (SSRL)

Stanford Linear Accelerator Center
2575 Sand Hill Road
Menlo Park, California 94025
USA

South America

Laboratório Nacional de Luz Síncrotron (LNLS)

Caixa Postal 6192
CEP 13084-971
Campinas, SP
Brazil

Neutron Facilities

Asia

ISSP Neutron Science Laboratory

Institute for Solid State Physics
The University of Tokyo
106-1 Shirakata, Tokai, Ibaraki 319-1106
Japan

Europe

Frank Laboratory of Neutron Physics (FLNP)

Joint Institute for Nuclear Research
141980 Dubna, Moscow Region
The Russian Federation

Hahn-Meitner Institute (HMI)

Glienicker Str. 100
14109 Berlin
Germany

Institut Laue-Langevin (ILL)

6, rue Jules Horowitz
BP 156 - 38042 Grenoble Cedex 9
France

ISIS Pulsed Neutron & Muon Source

Rutherford Appleton Laboratory
Chilton
Didcot OX11 0QX
United Kingdom

Laboratoire Léon Brillouin (LLB)

CEA Saclay
Bâtiment 563
91191 Gif-sur-Yvette cedex
France

Paul Scherrer Institute (PSI)

5232 Villigen PSI
Switzerland

Jülich Reactor FRJ-2

Forschungszentrums Jülich GmbH (FZ Jülich) (FZJ-2)
Institut für Festkörperforschung
Postfach 19 13
52425 Jülich
Germany
(FRJ-2 Closed in Spring 2006)

St. Petersburg Nuclear Physics Institute
PNPI RAS
Gatchina, Leningrad district 188300
Russian Federation

North America

The Canadian Neutron Beam Centre (CNBC)
National Research Council Canada
Building 459, Station 18
Chalk River Laboratories
Chalk River, Ontario
Canada K0J 1J0

High Flux Isotope Reactor (HFIR)
HFIR Center for Neutron Scattering
Oak Ridge National Laboratory
P.O. Box 2008
Oak Ridge, Tennessee 37831
USA

Intense Pulsed Neutron Source (IPNS)
Argonne National Laboratory
9700 S. Cass Ave
Argonne, Illinois 60439-4814
USA

Manuel Lujan Jr. Neutron Scattering Center at LANSCE
Los Alamos National Laboratory
P.O. Box 1663
Los Alamos, New Mexico 87545
USA

NIST Center for Neutron Research
Materials Science and Engineering Laboratory
National Institute of Standards and Technology (NIST)
100 Bureau Drive, MS 8562
Gaithersburg, Maryland 20899-8562
USA

User Groups and Societies that Responded to Questionnaire

U.S. User Groups

- ALS: Gregory Denbeaux
Chair, Executive Committee, Advanced Light Source Users' Organization
School of Nanosciences and Nanoengineering
University of Albany, SUNY
255 Fuller Road
Albany, NY 12203
gdenbeaux@uamail.albany.edu
- LANSCE: Chris Gould, Chair
Executive Committee, Los Alamos Neutron Science Center Users' Group
Physics Department
NC State University
Box 8202
Raleigh, NC 27695
chris_gould@ncsu.edu
- IPNS: Thomas Koetzle, Chair
Executive Committee, Intense Pulsed Neutron Source Users' Organization
Tkoetzle@aol.com>, tkoetzle@anl.gov
- NLSL: Peter Stephens
Chair, Executive Committee, National Synchrotron Light Source Users'
Organization
Stony Brook University
Dept. of Physics & Astronomy
Stony Brook, NY 11794
pstephens@sunysb.edu
- APS: Carol Thompson
Chair, Executive Committee, Advanced Photon Source Users' Organization
Department of Physics
Northern Illinois University
DeKalb, IL 60115
cthompson@niu.edu
- SNS & HFIR: Prof. Angus P. Wilkinson
Chair, Executive Committee, SNS HFIR User Group (SHUG)
Chemistry & Biochemistry
Georgia Institute of Technology
770 State Street
Atlanta, GA 30332-0400
angus.wilkinson@chemistry.gatech.edu

U.S. Societies

Robert Briber
Neutron Scattering Society of America
rbriber@umd.edu

European User Groups

ESRF: ESRF Users Organization
Prof. Marco Grioni (chairman)
Lausanne, Switzerland
marco.grioni@epfl.ch
user_org@esrf.fr

European Societies

Denmark: Danish Neutron Scattering Society
Kell Mortensen (Chair)
Risø National Laboratory
Danish Polymer Centre
Building 124, P.O. Box 49
Frederiksborgvej 399
DK-4000 Roskilde, Denmark
Email: kell@life.ku.dk

Europe: Peter Allenspach, President
The European Neutron Scattering Association (ENSA)
Peter.allenspach@psi.ch
http://neutron.neutron-eu.net/n_ensa/

France: Société Française de la Neutronique (SFN)
sfn@ill.fr
Francoise.Leclercq@hei.fr
Françoise Leclercq (CNRS-SC, Lille) Présidente

Germany: Komitee Forschung mit Neutronen (KFN)
<http://www.physik.uni-kiel.de/kfn/>
Prof. Dr. Helmut Schober (chairman)
Institut Max von Laue - Paul Langevin (ILL)
kfn@ill.fr

Sweden: Swedish Neutron Scattering Society
Adrian Rennie, Chairman
Dept of Physics

Uppsala University
Box 530
SE-751 21 Uppsala
Sweden
Adrian.Rennie@fysik.uu.se

Switzerland: Swiss Neutron Scattering Society
Paul Scherrer Institut
CH-5232 Villigen-PSI
Dr. P. Allenspach, President
peter.allenspach@psi.ch

Neutron Societies

Australia: Stewart Campbell, President (2005; 2006)
Australian Neutron Beam Users Group (ANBUG)
www.anbug.org
stewart.campbell@adfa.edu.au

OR

Craig Buckley, Vice-President (President-Elect 2007; 2008)
ANBUG
c.buckley@curtin.edu.au

Canada: Prof. Dominic Ryan, President, Canadian Institute for Neutron Scattering (CINS)
Physics Dept., McGill University
3600 University Street
Montreal, PQ
H3A 2T8
Tel 514-398-6534
Fax 514-398-6526
dominic@physics.mcgill.ca
gaulin@mcmaster.ca
<http://www.cins.ca/>

Korea: Professor Mahn-Won Kim, President
Professor Sung-Min Choi, Secretary
Korean Neutron Beam Users Association
mwkim@kaist.ac.kr
sungmin@kaist.ac.kr

Taiwan: Wen-Hsien Li, Representative of Taiwanese Society
Department of Physics
National Central University
Jung-Li 32054
Taiwan
whli@phy.ncu.edu.tw

Appendix 7

Meetings Held

- 1) Meeting with Officers of APS Divisions
19 February 2005
APS Unit Convocation
College Park, Maryland

Provided an introduction to and explanation of the study, its objectives, and time frame to the division officers and then held a roundtable discussion.

- 2) Meeting with Officers of APS Divisions
23 March 2005
APS March Meeting
Los Angeles, California

To solicit opinions, insights and suggestions from APS divisions regarding the study.

- 3) Wide consultation with directors and managers of facilities and executives of User Groups and Societies as well as scientists at facilities and those who conduct experiments at facilities throughout the world.

Appendix 8

Previous Reports on Major Synchrotron and Neutron Facilities

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Appendix 9

LIST OF ACRONYMS

ALS	Advanced Light Source
ANBUG	Australian Neutron Beam Users Group
ANL	Argonne National Laboratory (DOE)
ANS	Advanced Neutron Source
APS	Advanced Photon Source
BES	Basic Energy Sciences
BESAC	Basic Energy Sciences Advisory Committee
BESSY	Berliner Elektronenspeicherring-Gesellschaft für Synchrotronstrahlung
BNL	Brookhaven National Laboratory (DOE)
BSRF	Beijing Synchrotron Radiation Facility
CHESS 1	Cornell High Energy Synchrotron Source
CHRNS	Center for High Resolution Neutron Scattering
CINS	Canadian Institute for Neutron Scattering
CNBC	Canadian Neutron Beam Centre
DOC	Department of Commerce
DOE	Department of Energy
Elettra	Elettra Synchrotron Light Source
ENSA	European Neutron Scattering Association
ESF	European Science Foundation
ESRF	European Synchrotron Radiation Facility
FNLP	Frank Laboratory of Neutron Physics
HASYLAB	Hamburger Synchrotronstrahlungslabor
HFBR	High Flux Beam Reactor (Brookhaven National Laboratory)
HFIR	High Flux Isotope Reactor (Oak Ridge National Laboratory)
HMI	Hahn-Meitner Institute
ILL	Institut Laue-Langevin
IPNS	Intense Pulsed Neutron Source (Argonne National Laboratory)
ISIS	"Pulsed Spallation Neutron Source (Rutherford-Appleton Laboratory, UK)"
ISSP	ISSP Neutron Science Laboratory (Japan)
IWG	Interagency Working Group
Julich	Neutron Source at Julich
KFN	Komitee Forschung mit Neutronen
LANL	Los Alamos National Laboratory (DOE)
LANSCE	Los Alamos Neutron Science Center
LLB	"LLB, Saclay (France)"
LNLS	Laboratorio Nacional de Luz Sincrotron
LURE	Laboratoire pour l'Utilisation du Rayonnement Electromagnétique
Manuel Lujan	Manuel Lujan Jr. Neutron Scattering Center at LANS
MAX-lab	MAX-lab
MURR	University of Missouri Research Reactor
NBSR	Neutron Beam Split Core Reactor (NIST)
NCNR	NIST Center for Neutron Research

NIH	National Institutes of Health
NIST	National Institute of Standards and Technology
NIST	NIST Center for Neutron Research
NNSA	National Nuclear Security Administration (DOE)
NSF	National Science Foundation
NLSL	National Synchrotron Light Source
NSTC	National Science and Technology Council
OBER	Office of Biological and Environmental Research (DOE Office of Science)
OECD	Organization for Economic Cooperation and Development
ORNL	Oak Ridge National Laboratory (DOE)
OSTP	Office of Science and Technology Policy
Pohang	Pohang Accelerator Laboratory
PSI	Paul Scherrer Institut, Villigen, Switzerland
SANS	Small Angle Neutron Scattering
SFN	Societe Francaise de la Neutronique
SHUG	SNS and HFIR User Group
Siberian	Siberian Synchrotron and Terahertz Radiation Center
SINQ	Swiss spallation neutron source at the Paul Scherrer Institut
SLS	Swiss Light Source at the Paul Scherrer Institut
SNS	Spallation Neutron Source (Oak Ridge National Laboratory)
Spring8	Super Photon Ring - 8 GeV
SRS	Synchrotron Radiation Source
SSRL	Stanford Synchrotron Radiation Laboratory
St. Petersburg 1	St. Petersburg Nuclear Physics Institute (Part 1)
St. Petersburg 2	St. Petersburg Nuclear Physics Institute (Part 2)

Advanced Photon Source Users' Organization
 ALS Users' Executive Committee
 Danish Neutron Scattering Society
 ESRF Users Organization
 Intense Pulsed Neutron Source Users' Organization
 Korea
 Los Alamos Neutron Science Center Users' Group
 National Synchrotron Light Source: Users' Executive
 Swedish Neutron Scattering Society
 Swiss Neutron Scattering Society
 Taiwan Neutron Society