



“lightsources.org ... a light-sources information Web site, with news, education, and user information content areas...



Discussion between light-source
“communicators” about Web space
where communicators could
communicate with each other....

...evolved into a Web site that will serve as a focal point for news, information, and education resources about and from the world's light sources.

Organization

Light Source Communicators Group

Representatives of any accelerator-based light source facility, either operating or under construction...

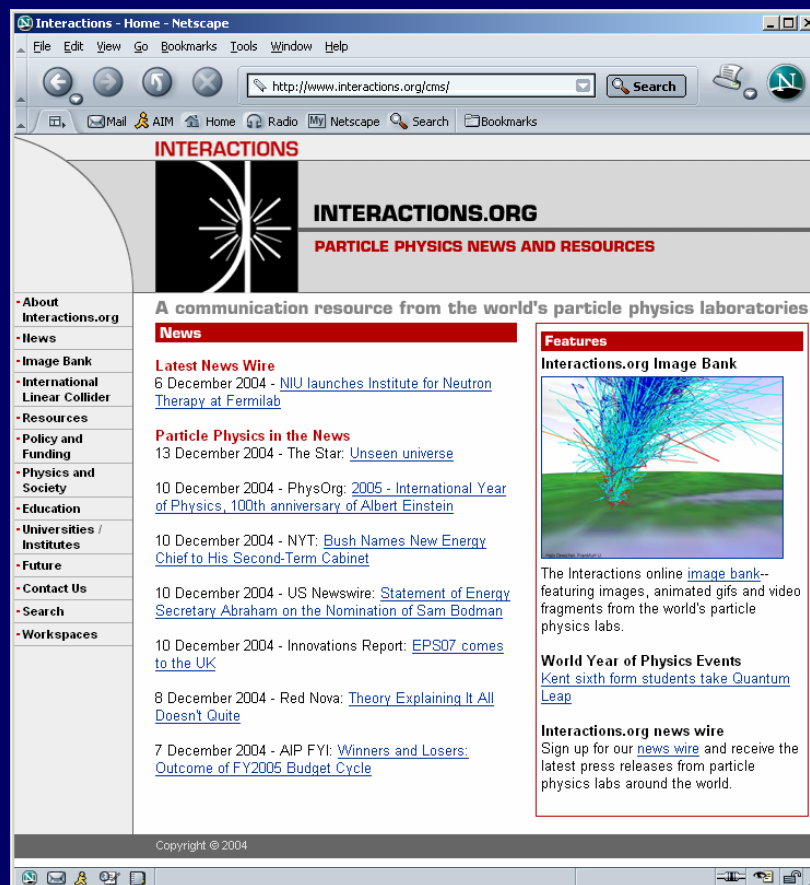
lightsources.org Management Group

Members of the Light Source Communicators Group whose facility director has agreed to financial support of the lightsources.org Web site...

lightsources.org Editorial Board

Drawn on a rotating basis from the lightsources.org Management Group...

“Interactions.org” (HEP web site) was starting point....



Used Interactions.org CMS developed by Xeno Media
(saved > \$40K in development costs)

Some differences, tho...

Interactions.org

- 2 labs (SLAC, FNAL)
made all decisions
- FNAL paid the bills
- Site, then collaboration
- Resource for HEP, then others

lightsources.org

- Multiple labs at start
(Design etc. by committee)
- Multiple labs pay the bills
- Collaboration, then site
- Resource for Is's & others

Three content categories:

1. News

- Press coverage of Is-related stories
 - Discoveries
 - Facility-related news
 - Relevant news from funding agencies, govts., etc.
 - CMS notifies members of article, etc.
- Press releases from user institutions & facilities
 - Developing database of user institution PR offices
- “NewsFlash” sends latest news to subscribers
 - No fee
- Image Bank provides Is-related photos, graphics

2. Facility Information

- Resources for users (current & future) & others
 - Comprehensive beamline & technique information
 - User-run schedules
 - Proposal submission dates
 - Links to publications databases
 - Info about light source facilities
 - Facility descriptions
 - Links to job postings
 - Meetings (user & otherwise)
 - Special events

(Contacting user offices for ideas and
to see how we can help them)

3. Education

–Links to educational web pages

–Coordinate development of educational resources (avoid duplication of effort)

The screenshot shows a Netscape browser window with the address bar set to <http://science-ed.pnl.gov/pdf/cover.pdf>. The page content includes the title "Materials Science and Technology Teachers Handbook" and a small image of a glowing orange object on a blue base. The footer identifies the Pacific Northwest National Laboratory in Richland, Washington.

The screenshot shows a Netscape browser window displaying a banner for "MICROWORLDS Exploring the Structure of Materials Science education for grades 9-12 - From Berkeley Lab -". Below the banner, the text reads: "Welcome! MicroWorlds is an interactive tour of current research in the materials sciences at Berkeley Lab's Advanced Light Source. Along the way, you'll find out:"

- What the Advanced Light Source is and how this amazing machine works.
- What it looks like inside the ALS.
- What it's like to work at the ALS.
- What a student can do at the ALS.
- What polymers are and why they are so useful.

The screenshot shows the homepage of the General Atomics Sciences Education Foundation. It features a large banner with the text "Welcome to the General Atomics Sciences Education Foundation Home Page" and a navigation menu with links for "EDUCATION MODULES", "PRESENTATIONS", "EDUCATIONAL MATERIALS", "ORDER FORM", and "CALENDAR". There are also links for "Educational Institutions", "Publications", "K-12 Science Education", "Conferences & Workshops", and "People".

The screenshot shows a Netscape browser window displaying the "Crystallography 101" page. The page includes a search bar, a title "Crystallography 101", and a sub-header "An Introductory Course by Bernhard Rupp". Below this, there is a section titled "What is X-ray Crystallography?" followed by a paragraph explaining the technique and a 3D molecular model. A "Comments" link is also visible.

The screenshot shows a Netscape browser window displaying the "Synchrotron Radiation Primer" page. The page contains a detailed introduction to synchrotron radiation, including a diagram of a synchrotron and several graphs showing the characteristics of the radiation. The text explains how synchrotron radiation is produced and its applications in various scientific fields.

Letter signed by facility directors Gibson (APS)
& Stirling (ESRF) sent to other facility directors
worldwide outlining lightsources.org proposal
& requesting support

★ Members of the lightsources.org collaboration (so far)



ALS, APS, CLS, ELTTRA, ESRF, HASYLAB, JEFLab, NSLS, NSRRC, PAL,
Photon Factory, SLS, SPring-8, SRC, SSRL, SURF III

\$4,500 USD/yr/facility

But: ls.org is NOT “members only”

lightsources.org will disseminate
news and information from ALL light sources,
not just those that have paid the sponsor fee

Thanks to D. Lin (NSRRC), N. Usami (Photon Factory) lightsources.org promotional brochure (English version by U. Arp, SURF III) translated and published in Chinese & Japanese...

... site will also have weekly Chinese-language news digest – hoping for Japanese...

The image shows a promotional brochure for lightsources.org. It is divided into three vertical sections. The left section contains Chinese text detailing the organization's management, communication, administrative, editorial, and website design. The middle section contains English text providing contact information and a list of member synchrotron facilities. The right section features the lightsources.org logo and a description of the website as an information-intensive clearing house for synchrotron-related news and materials.

組織管理
各光源設施均受總協理一至二位人員參加，擔任發言人，並負責該設施聯絡與統籌策劃工作。

資訊交流組
負責總基金的光源設施之代表編寫，負責行政管理之責。

編輯委員會
七人組成的編輯委員會由行政管理組成員輪流擔任，管理電子網站日常業務。

網站設計
電子網站設計及初期工程由 Xeno Media 公司負責，並提供硬體設備。

網站負責人
網站負責人執行內容整理與更新、功能設計、與日常運作維護等工作。

加達器光源資訊交流聯盟
www.lightsources.org
E-mail: info@lightsources.org

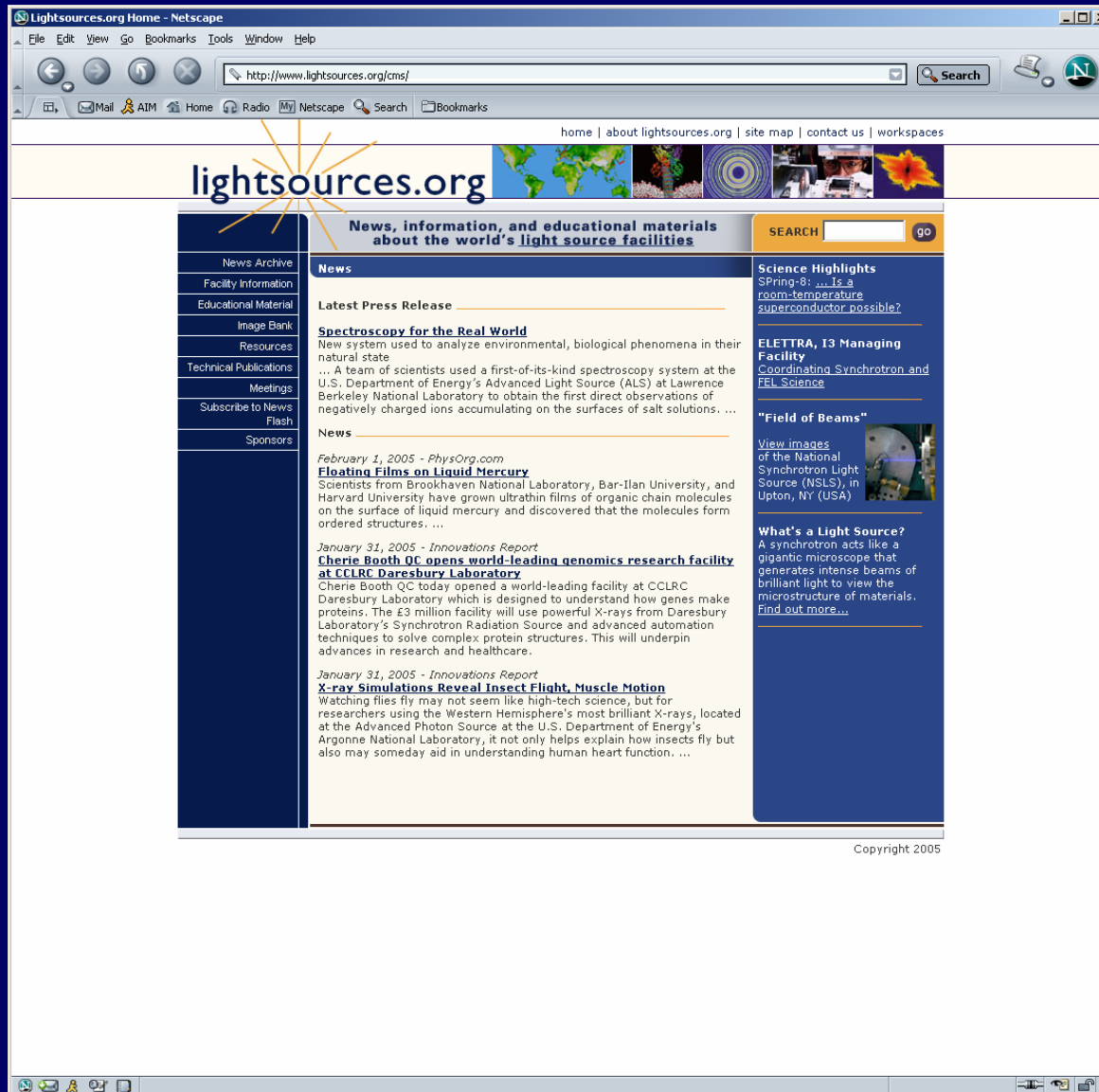
聯盟每年管理基金為 70,000 美元，基金等以會員贊助方式為主，每一會員每年贊助金為 4,500 美元。是次華東基金於 2004 年首先由 Advanced Light Source (USA), Advanced Photo Source (USA), DESY (Germany), Canadian Light Source (Canada), Elettra (Italy), European Synchrotron Radiation Facility (France), Hamburger Synchrotronstrahlungslabor (Germany), National Synchrotron Light Source (USA), National Synchrotron Radiation Research Center (Taiwan), Pohang Light Source (Korea), Spring-8 (Japan), Stanford Synchrotron Radiation Laboratory (USA), Swiss Light Source (Switzerland), Synchrotron Radiation Center (USA), 以及 Synchrotron Ultraviolet Radiation Facility (USA) 發起，繼而擴大至其他光源設施。

LIGHTSOURCES.ORG
is an information-intensive web site that will serve the world's synchrotron light sources as a clearing house for light-source-related news, educational materials, and user-related information.

加達器光源資訊交流聯盟
由世界加達器光源設施組成，建置公共網站，以促進資訊交流、資源分享、及推廣加達器光源與相關科學研究知識，使其研究成果突破地域的限制，普及應用在世界各國。

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The beta
lightsources.org
web site (so far):



Open to the public February '05

The lightsources.org webmaster: Amaya Muñoz (CARS)

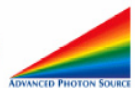


Spreading the word....

- Is.org board members giving talks at user mtgs., conferences
- Notices in JSR facility information pages
- Article in next SRN
- Displays at conferences

MATERIALS SCIENCE • BIOLOGICAL SCIENCE • CHEMICAL SCIENCE • X-RAY INSTRUMENTATION • ENVIRONMENTAL SCIENCE • MOLECULAR SCIENCE

**The U.S. DEPARTMENT OF ENERGY'S
ADVANCED PHOTON SOURCE
ARGONNE NATIONAL LABORATORY**



The Center for Nanoscale Materials Breaks Ground



The Center for Nanoscale Materials (CNM) is one of five Nanoscale Science Research Centers funded by the U.S. Department of Energy's (DOE's) Office of Basic Energy Sciences (OES) and constructed at the DOE's national laboratories. The CNM is a \$72M federal/State-of-Illinois partnership for designing, synthesizing, fabricating, and characterizing materials at the nanoscale. The CNM will provide the scientific community with a broad complement of tools for advanced nanocharacterization, nanolithography, and synthesis. A centerpiece of the CNM will be the Nanoprobe beamline, the facility's premier nanocharacterization tool, designed to afford capabilities for fluorescence, diffraction, and transmission imaging at a spatial resolution of 30 nm or better. Funding for the Nanoprobe beamline is provided by DOE-OES. The Nanoprobe is expected to advance the state of the art in nanoscience by providing the highest-spatial-resolution hard x-ray beamline in the world. Formal groundbreaking ceremonies for the CNM are scheduled for this fall.

The BSL-3 Biosafety Facility at BioCARS



A new facility at the APS will allow studies of a wide range of viruses and toxins. The facility, part of the Consortium for Advanced Radiation Sources (BioCARS) beamlines, can accommodate work with materials classified as Biosafety Level (BSL)-2 agents (i.e., measles and hepatitis B) or BSL-3 agents, such as tuberculosis, encephalitis, and West Nile virus. BioCARS is now the only functioning synchrotron-based x-ray diffraction laboratory in the U.S. that can be used for the safe study of these types of samples. Utmost attention has been paid to safety, with all U.S. safety requirements met for handling BSL-2- and BSL-3-level materials. The equipment added to the BioCARS research station at APS sector 14 includes infrastructure such as HEPA filters and air-handling units.

At the APS, our door is open to experimenters from all scientific disciplines, whose research requires the highest-brilliance hard x-ray beams in the Western Hemisphere.

General-user proposals for beam time during Run 2005-2 are due by March 11, 2005.
Information on access to beam time at the APS is at: http://www.aps.anl.gov/user/beamtime/get_beam.html or contact Dr. Dennis Mills, DMills@aps.anl.gov, 630292-6666.
Information on APS research techniques and beamline capabilities is at: http://www.aps.anl.gov/user/beamtime/get_beam.html

lightsources.org

A group of communicators from light source facilities worldwide has formed a collaboration to develop a World Wide Web site called [lightsources.org](http://www.lightsources.org) (<http://www.lightsources.org>). This site will serve the general public, the media, government decision makers, and the international light source research community as a source for news, facility information, and light source-related educational materials. The endeavor is supported by a growing list of light source facilities from Europe, North America, and Asia. The collaboration expects to launch [lightsources.org](http://www.lightsources.org) before the end of 2004. For more information or to make suggestions, contact us at info@lightsources.org.



Argonne National Laboratory,
a U.S. Department of Energy Office of Science laboratory,
is operated by The University of Chicago.
The Advanced Photon Source is funded by the U.S. Department of Energy,
Office of Science, Office of Basic Energy Sciences.



SCIENCE TECHNOLOGY • ENVIRONMENTAL SCIENCE • CHEMICAL SCIENCE • BIOLOGICAL SCIENCE • MATERIALS SCIENCE

Is.org Management Board (12.13.04)

ALS: L. Moxson & A. Robinson

APS: R. Fenner & M. Nowotarski

CLS: S. Ribeiro & K. Warden

ELETTRA: M. Bertolo

ESRF: D. Cornu ejols & A. Freund

HASYLAB: P. Folkerts

Jefferson Lab: L. Ware

Photon Factory: Y. Morita & N. Usami

NSLS: S. Giordano & L. Miller

NSRRC: C.-H. Hsu & D. Lin

Pohang: I.S. Ko

Spring-8: TBD

SSRL: N. Calder & C. Knotts

SURF III: U. Arp

SLS: H.-J. Weyer

SRC: C. Moore