

# Lawrence Berkeley National Laboratory

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### **Author**

Weintraub, Silka

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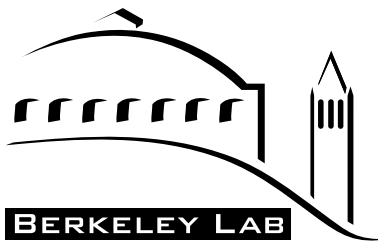
Investigate  
the  
possibilities . . .

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## INVESTIGATE THE POSSIBILITIES

**T**ap a great national resource — partner with Ernest Orlando Lawrence Berkeley National Laboratory and take advantage of our leading-edge capabilities and expertise. We are ready to help U.S. companies compete in a tough global marketplace. Overlooking the UC Berkeley campus, Berkeley Lab is a national laboratory managed by the University of California for the U.S. Department of Energy. Berkeley Lab's research produces innovative technologies in fields applicable to many industries, including:

- **ACCELERATOR SYSTEMS** — Synchrotron radiation source for lithography, crystallography, bioscience and microelectronic characterization; simulation of cosmic rays for testing aerospace electronics
- **ADVANCED MATERIALS** — Plasma processing, ion implantation, advanced ceramics, semiconductors, superconductors, high-performance metals, polymers, and catalysts; high-powered electron microscopy, x-ray optics, electrochemistry, and alloy theory
- **BIOTECHNOLOGY** — Molecular and cellular biology, genetics, mutagenesis, carcinogenesis, diagnostic imaging, radiation biophysics, radiotherapy and radiosurgery, lipoprotein research, cardiovascular disease, hemopoiesis research, sequencing of human genome, x-ray crystallography for 'rational' drug design
- **COMPUTING** — Advanced database technology, distributed computing systems, high-speed networking, advanced computer imaging, expert systems for advanced manufacturing
- **ENERGY** — Fossil energy conversion, electrochemical energy storage, energy use analysis, high-efficiency insulators, computer simulations of building energy use and lighting, windows and daylighting, building energy efficiency, enhanced petroleum discovery and recovery, geothermal technology development, long-term study of photon-energy storage and photosynthetic energy systems
- **ENVIRONMENT** — Atmospheric effects of combustion and air quality, radon studies and abatement, high-resolution wellbore imaging, site remediation, indoor air quality
- **MANUFACTURING** — Advanced equipment development, micro-precision fabrication (micro electromechanical systems), laboratory and systems automation
- **SENSORS AND CONTROLS** — Reactive control systems, sensor development and fabrication, diagnostics and computer algorithms, custom integrated circuits and systems
- **TRANSPORTATION** — Batteries, advanced insulations, electrochromic windows, reflective coatings

### For More Information Contact:

#### Licensing

Viviana Wolinsky  
Licensing Manager

#### All Other Information

Bruce Davies  
Marketing Manager

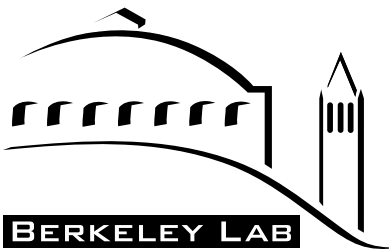
Lawrence Berkeley National Laboratory  
Technology Transfer Department

1 Cyclotron Road, Mail Stop 90-1070  
Berkeley, CA 94720

Voice (510) 486-6467 • FAX (510) 486-6457

and visit our website at

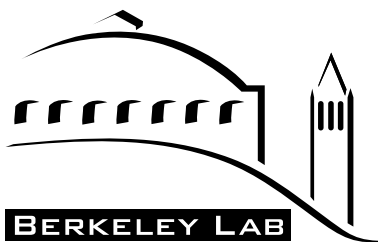
<http://www.lbl.gov>



## PARTNERSHIP MECHANISMS

MECHANISM	DEFINITION	BEST USED	PROTECTION OF GENERATED INFORMATION	RIGHTS IN INTELLECTUAL PROPERTY	DOE APPROVAL REQUIRED
<b>INFORMATION EXCHANGE</b>	The informal and free exchange of information through publications, presentations, briefings, workshops, and visits designed to inform potential industry partners about the R&D activities and capabilities of Berkeley Lab, and/or determine their needs.	When potential industry partners need to obtain initial information on Berkeley Lab activities and capabilities	N/A	N/A	N/A
<b>TECHNICAL ASSISTANCE</b>	Short-duration (5 working days) effort focused on timely assistance to small business partners with specific technical problems. Generally, Berkeley Lab covers salary and payroll burdens of Laboratory personnel that participate. Simple, one-page contract.	To assist small businesses that need technical assistance with unique problems. Subject to available funding from DOE.	No	No	No
<b>PERSONNEL EXCHANGE</b>	Exchanges of personnel between industry and Berkeley Lab for less than one year. Berkeley Lab personnel are assigned to industry facilities and/or industry assigns personnel to Berkeley Lab.	When Berkeley Lab and industrial partner have an interest in learning about each other and sharing specific skills and expertise. The level of effort and contractual obligations associated with staff exchanges are typically less than those associated with CRADAs.	No	Subject to negotiation	No
<b>USER FACILITY AGREEMENT</b>	Allows industry and university partners to conduct proprietary or nonproprietary research at the Laboratory's unique experimental facilities.	When partner needs are best met through use of specialized equipment or facilities designated as "National User Facilities" available at Berkeley Lab.	Proprietary data must be marked for protection	User may take title to inventions	No
<b>COOPERATIVE RESEARCH AND DEVELOPMENT AGREEMENT (CRADA)</b>	Research and development projects that are supported by resource contributions from both Berkeley Lab and industry, and have a specific technical development focus with planned outcomes. Multi-year CRADAs generally use long form CRADA contract. Shorter term/smaller scope CRADAs (that are less than \$150,000) may use 5-page contract.	When Berkeley Lab, DOE, and industry have mutual interest in the development of a technology area, and cost sharing by the partners is appropriate.	Commercially valuable information generated under a CRADA may be protected for up to 5 years.	Industry-created intellectual property retained by industry. Rights to Berkeley Lab intellectual property created under a CRADA, negotiated separately.	Yes
<b>WORK FOR OTHERS (SPONSORED RESEARCH)</b>	Research and development projects and technical assistance efforts that are fully funded by private industry. Work must use a unique capability of the Laboratory and not place the Laboratory in direct competition with the private sector.	When industry has an immediate need for services, desires a high degree of control over the scope of services and information provided, and is willing and able to pay for the cost of services.	Proprietary data must be marked for protection	Subject to negotiation	Yes
<b>LICENSING</b>	Transfer of rights to patented inventions, copyrighted software, maskworks or tangible research products. May be exclusive or nonexclusive, for broad or limited field of use, to be negotiated on a case-by-case basis.	When Berkeley Lab has legal rights to a technology or software that fits an industrial partner's business strategy, and the partner wants to develop and commercialize the product/process.	N/A	Grants rights under patents, copyrights, and maskworks to use Laboratory inventions and software	Rarely required





## TECHNOLOGY TRANSFER MEANS BUSINESS

### Lawrence Berkeley National Laboratory invites you to take a closer look at the many R&D approaches and opportunities available to private industry

#### Berkeley Lab Welcomes Your Inquiries

Berkeley Lab's unique interdisciplinary science approach offers many technology transfer options. U. S. Department of Energy policy encourages private sector use of government-developed technologies. We welcome your inquiries to explore areas of research, technology, and collaboration.

#### Forging Stronger Ties

As a national laboratory, one of our missions is to make research results available to the nation's private sector for rapid commercialization. Private industrialists and entrepreneurs broaden the potential benefit and commercial value of laboratory research. They help translate new discoveries into commercially usable products and processes. Working together, the national laboratories and U.S. industry can help strengthen

America's competitiveness in the world marketplace. Together, we mean business.

#### Making Technology Transfer Simple

We have streamlined our technology transfer operations to help industry move technologies, ideas, and services from Berkeley Lab to the marketplace.

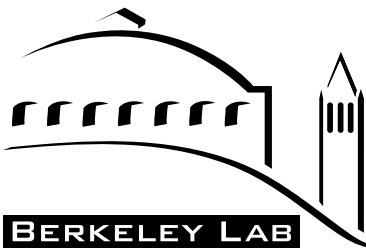
#### Technology Transfer Department

Technology transfer depends on communication between those generating knowledge and those able to put it to use. The Technology Transfer Department is a focal point to foster productive relationships between scientists in research programs at Berkeley Lab, and individuals in the private sector. If you have questions regarding research areas of interest, or would like answers about the types of working

relationships we form with industry, start with the Technology Transfer Department. Contact the Technology Transfer Department to:

- Pinpoint research areas of common interest
- Negotiate rights to Berkeley Lab's intellectual property
- Discuss current patent and copyright licensing opportunities
- Explore sponsorships, collaborative projects and staff exchange programs
- Set up meetings with specific investigators
- Arrange site tours





## LICENSE NEW TECHNOLOGIES

### Berkeley Lab licenses a broad array of cutting-edge technologies to private industry

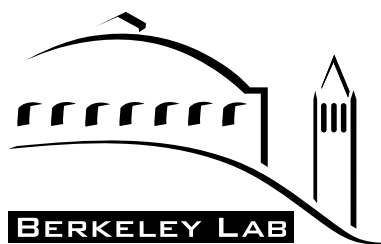
- ◆ **Terms** of each Berkeley Lab license vary commensurately with the market value of that technology and the common licensing practices of the relevant industrial sector.
- ◆ Licenses typically have three **monetary terms**:
  - **License issue fee**, which is nonrefundable and due upon execution of the agreement;
  - **Running royalty**, which is most commonly based on a percentage of sales, and
  - **Minimum annual royalties**.
- ◆ Licenses also contain **performance requirements** for the licensee. These are milestones that Berkeley Lab and the licensee agree reflect diligent progress in the development of the technology. These performance requirements reflect our commitment to ensure that technologies developed at Berkeley Lab are commercialized, and that the public ultimately enjoys the benefit.
- ◆ Licenses may be **exclusive or non-exclusive** for a particular field of use or geographic region.
- ◆ When an agreement grants an exclusive license for the U.S. market, the licensee must substantially **manufacture** the technology in the U.S.
- ◆ The **U.S. government** is granted a fully paid-up, nontransferable, non-exclusive license to use the invention for government purposes only, as is the case with other federally funded inventions.

Berkeley Lab's Technology Transfer Department looks forward to working with industry to develop commercially reasonable and fair license terms and conditions. Qualified, small, women-owned, minority-owned, and disadvantaged businesses are especially encouraged to inquire.

*For further information regarding a specific technology, contact*

Viviana Wolinsky, Licensing Manager  
VIWolinsky@lbl.gov





## SAMPLE BERKELEY LAB TECHNOLOGIES

### Batteries

Batteries with orthorhombic sodium manganese oxide cathode  
Electrochemical Nanolithography  
Ion implantation to extend battery life  
Overcharge protection for rechargeable lithium batteries  
Solid state sodium cobalt bronze batteries  
Zinc-air battery  
Zinc-nickel oxide battery

### Biotechnology and Medicine

Aligned crystal growth at polymerized membranes  
Amorphous silicon array for medical imaging  
Anthrax detection kit  
Biomarker for cell senescence  
Breast cancer therapy for unresponsive metastatic tumors  
Cancer treatment: neutron source for BNCT  
Capcall: superior basecalling software package  
Direct quantum detection digital x-ray imaging  
Electron crystallography of membrane proteins  
Engineering cell surfaces and cellular products  
Erythropoietin (EPO) binding protein  
Factors that neutralize radiation damage caused by TGF- $\beta$   
Fluorescent biosensor  
Genes encoding telomere-associated proteins  
Heat shock proteins  
Integrated framework for analysis of molecular profile data  
Intracellular sodium detection using multiple quantum NMR  
Microdissection of DNA molecules for genomic studies  
Negative ion beam injection apparatus  
Neural network algorithm for predicting protein structures  
Physical mapping of DNA yields high resolution image  
PINTA: automated MRI visualization software  
Polymerized nanoparticle therapeutics  
PrepTrack: assembly line automation of microtiter plate  
Prototype therapeutic agent for pathogenic *E. coli*  
Restoration of normal function in cancer cells  
Rf-driven plasma source for ion implantation  
Scanning tip microwave near field microscope  
Semiconducting thin film for microstrip gas radiation detectors  
Substituted 6-nitroquipazines  
Tendon repair factor  
Thermal cycler for rapid processing of polymerase chain reaction assays  
Transgenic mice: atherosclerosis portfolio  
Transgenic mice model breast cancer and leukemia  
Transgenic mice model learning disorder in Down syndrome  
Transgenic mice model male infertility  
Tritium-labeled, high specific activity compounds

### Chemical & Manufacturing Processes

Carbon nanotubes with heterojunctions for nanoscale electronics  
Carboxylic acids recovery  
Catalytically treated graphite  
Compound refractive X-ray lens

### Chemical & Manufacturing Processes (cont'd)

Electrochemical nanolithography  
Coplanar electrode configuration for radiation detectors  
Direct quantum detection digital X-ray imaging  
Fluorination of unstable nickel fluorides using NiF<sub>6</sub><sup>2-</sup> salts  
High quantum efficiency charge coupled device  
High resolution EUV monochromator/spectrometer  
Mini pulsed metal plasma gun  
Nanomachining of high aspect ratio structures  
Optical metrology: superior x-ray mirrors  
Phase shifting interferometer  
PhoSNOX: yellow phosphorous for flue gas scrubbing  
Pigments for coatings that reflect infrared radiation from fire  
Pozone  
Rf-driven metallic ion beam source  
Rf-driven plasma source for ion beam implantation applications  
Sapphire and nitride semiconductor device manufacturing  
Selective ion source for semiconductor devices  
Selective photochemical oxidation of hydrocarbons  
Superconducting multilayer interconnect technology  
Widely tunable semiconductor THz (infrared) laser

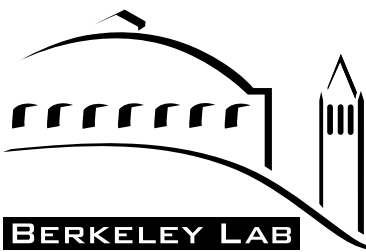
### Energy Efficient Technologies

Aerogels  
Aerogels: reduction of inorganic oxides with reactive plasma  
Combination table lap/torchiere  
Electromagnetic field imaging — high resolution, low frequency  
Energy efficient laboratory fume hood  
Energy efficient lighting  
Gas filled insulating panels  
High efficiency coupling for fiber optic and solid light guides  
Pozone  
Selective photochemical oxidation of hydrocarbons  
Solid oxide fuel cell technologies

### Environmental Technologies

Adsorbing media for carbon mass balance in airborne particles  
Aerogels  
Coplanar electrode configuration for radiation detectors  
Direct-measure water flux meter and omni-depth tensiometer  
Disposable diffusion denuder  
Electrical resistivity monitoring borehole array  
Electromagnetic field imaging — high resolution, low frequency  
Energy efficient laboratory fume hood  
Exhaust hood airvest  
Ferrofluids for subsurface flow control and imaging  
Gas filled insulating panels  
*In situ* optical sensor for particulate inorganic carbon in seawater  
*In vitro* model for bioavailability of chemicals in humans  
Lean flame stabilization ring converts natural gas burners  
Low NO<sub>x</sub> swirl burner  
Organic pollutant sampler





## SAMPLE BERKELEY LAB TECHNOLOGIES

### Environmental Technologies (cont'd)

PhoSNOX: yellow phosphorous for flue gas scrubbing  
Photoluminescent aerogel oxygen sensor  
Recyclable sorbent coating for organic pollutant sampler  
Selective photochemical oxidation of hydrocarbons  
Subsurface barriers to contain hazardous wastes  
Wellbore procedure characterizes groundwater contamination

### Ion Sources

Cancer treatment: neutron source for BNCT  
Cathodic arc plasma system with twist filter  
Compact high flux rf-neutron source  
Compact rf-matching network for ion beam applications  
Constricted plasma source  
Focused ion beam source  
Intense multiply charged ion source  
Ion implantation to extend battery life  
Low energy spread ion source  
Mini pulsed metal plasma gun  
Molecular ion source  
Negative ion beam injection apparatus  
Porcelain-coated rf antenna  
Quartz antenna with hollow conductor  
Quartz antenna for rf sources  
Rf-driven metallic ion beam source  
Rf-driven plasma source for ion implantation applications  
Selective ion source for semiconductor devices

### Materials Sciences

Aerogels  
Aerogels: reduction of inorganic oxides using reactive plasma  
Aerosol remote duct sealing system  
Aligned crystal growth at polymerized membranes  
Amorphous silicon array for medical imaging  
Carbon nanotechnology:  
Boron and nitrogen doped carbon nanotubes as insulators  
C<sub>36</sub> fullerenes for designing new materials  
Carbon nanotubes with heterojunctions for nanoscale electronics  
Carbon nanotube field emission devices  
Carbon nanotube computer  
Engineering of nanotube geometry  
Metallic carbon materials  
Nanotube bearing and spring  
Nanotube chemical gas sensor  
Nanotubes — simple method for continuous production  
Coplanar electrode configuration for radiation detectors  
Corrosion-resistant titanium for highly oxidizing environments  
GaN in blue-light semiconductor lasers and LEDs  
Giant magnetoresistant (GMR) materials

### Materials Sciences (cont'd)

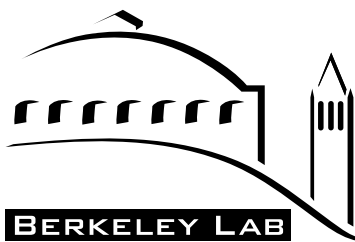
Multimetal oxide thin films  
Phase shifting interferometer  
Photoluminescent aerogel oxygen sensor  
Pigments for coatings that reflect infrared radiation from fire  
Polymerized nanoparticle therapeutics  
Precision optical slit  
Sapphire and nitride semiconductor device manufacturing  
Scanning polarization microscope  
Scanning tip microwave near field microscope  
Selective ion source for semiconductor devices  
Semiconducting thin film for microstrip gas radiation detectors  
Subsurface barriers to contain hazardous waste  
Superconducting films on metal substrates carry commercial level current  
Tamper-proof "smart adhesives" cannot be duplicated  
Ultrafast scanning probe microscopy

### Sensors

Amorphous silicon array for medical imaging  
Coplanar electrode configuration for radiation detectors  
Direct measure water flux meter and omnidirectional tensiometer  
Direct quantum detection digital x-ray imaging  
Electrical resistivity monitoring borehole array  
EUV monochromator/spectrometer with high resolution  
Fiber optic paper sensor  
*In situ* optical sensor for particulate inorganic carbon in seawater  
Mass spectrometer for high MW ions and charged particles  
Moisture-resistant columnar cesium iodide for digital radiography  
Novel electrochromic device controlled by sunlight  
Phase shifting interferometer  
Photoluminescent aerogel oxygen sensor  
Physical mapping of DNA yields high resolution image  
PINTA: automated MRI visualization software  
Preamplifier printed circuit layout for the GRETA detector  
Recyclable sorbent coating for organic pollutant sampler  
Safe automated laser alignment device (SALAD)  
Scanning tip microwave near field microscope  
Semiconducting thin film for microstrip gas radiation detectors  
Solid state optical switching device  
SQUIDS:  
High T<sub>c</sub> SQUID circuits suppress intrinsic magnetic field noise  
SQUID based planar gradiometer suppresses ambient field noise  
Superconducting multilayer interconnect technology  
Substituted 6-nitroquipazines  
Thin film for stabilizing the microstrip gas radiation detector  
Wellbore procedure characterizes groundwater contamination

October 17, 2000





# TECHNOLOGY TRANSFER PERSONNEL DIRECTORY

The personnel listed here and on the reverse side are direct contacts to divisions, centers, user facilities and technology transfer officials. Call or write today.

## RESEARCH DIVISIONS

### Accelerator and Fusion Research

*Alan Jackson*  
510.486.7384  
AJackson@lbl.gov

### Advanced Light Source

*Gary Krebs*  
510.486.7727  
GFKrebs@lbl.gov

### Chemical Sciences

*Daniel Neumark*  
510.486.6382  
DMNeumark@lbl.gov

### Earth Sciences

*Norm Goldstein*  
510.486.5961  
NEGoldstein@lbl.gov

### Engineering

*Deb Hopkins*  
510.486.4922  
DLHopkins@lbl.gov

### Environment, Health & Safety

*Robin Wendt*  
510.486.6012  
RAWendt@lbl.gov

### Environmental Energy Technologies

*Don Grether*  
510.486.6283  
DFGrether@lbl.gov

### Genomics

*David Gilbert*  
510.486.6096  
DEGilbert@lbl.gov

### Information and Computing Sciences

*Jon Bashor*  
510.486.5849  
JBashor@lbl.gov

## RESEARCH DIVISIONS (cont'd)

### Life Sciences

*David Gilbert*  
510.486.6096  
DEGilbert@lbl.gov

### Materials Sciences

*Mark Alper*  
510.486.6581  
MDAlper@lbl.gov

### National Energy Research Scientific Computing (NERSC)

*Jon Bashor*  
510.486.5849  
JBashor@lbl.gov

### Nuclear Science

*Gordon Wozniak*  
510.486.5071  
GJWozniak@lbl.gov

### Physical Biosciences

*Kristin Balder-Froid*  
510.486.6060  
KHBalder-Froid@lbl.gov

### Physics

*Ronald Madaras*  
510.486.4410  
RJMadaras@lbl.gov

## TECHNOLOGY TRANSFER

### Technology Transfer Department

*Cheryl Fragiadakis*  
510.486.6467  
CAFragiadakis@lbl.gov

### Sponsored Projects Office/ Contracts

*Jeff Weiner*  
510.486.7143  
Jeff\_Weiner@lbl.gov

## RESEARCH CENTERS

### Berkeley Center for Structural Biology

*Thomas Earnest*  
510.486-4603  
TNEarnest@lbl.gov

### Berkeley Structural Genomics Center

*Sung-Hou Kim*  
510.486.4333  
SHKim@lbl.gov

### Center for Advanced Materials

*Mark Alper*  
510.486.6581  
MDAlper@lbl.gov

### Center for Computational Seismology

*Tom McEvilly*  
510.486.7347  
TVMcEvilly@lbl.gov

### Center for Environmental Biotechnology

*Terry Hazen*  
510.486.6223  
TCHazen@lbl.gov

### Center for Functional Imaging

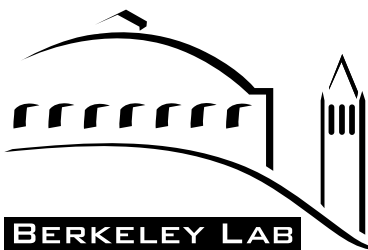
*Thomas Budinger*  
510.486.5435  
TFBudinger@lbl.gov

### NASA Specialized Center of Research & Training (NSCORT)

*Aloke Chatterjee*  
510.486.5414  
A\_Chatterjee@lbl.gov

### Center for Isotope Geochemistry

*Don DePaolo*  
510.486.4975  
DJDePaolo@lbl.gov



# TECHNOLOGY TRANSFER PERSONNEL DIRECTORY

## RESEARCH CENTERS (cont'd)

### Center for Research and Education in Aging (CREA)

*Judith Campisi*  
510.486.4416  
JCampisi@lbl.gov

### Center for X-Ray Optics

*David Attwood*  
510.486.4463  
DTAttwood@lbl.gov

### High Aspect Ratio-Microfabrication Laboratory (LIGA)

*Keith Jackson*  
510.486.6894  
KRJackson@lbl.gov

### Geosciences Measurement Facility

*Norman Goldstein*  
510.486.5961  
NEGGoldstein@lbl.gov

### The Glenn T. Seaborg Center (for Actinide Science)

*Heino Nitsche*  
510.486.5615  
HNitsche@lbl.gov

## NATIONAL USER FACILITIES

### Advanced Light Source

*Neville Smith*  
Scientific Program Coordinator  
510.486.5423  
NVSmith@lbl.gov

### *Glen Dahlbacka*

Industrial Program Development  
510.486.5358  
GHDahlbacka@lbl.gov

### ALS Molecular Environmental Science Facility

*David Shuh*  
510.486.6937  
DKShuh@lbl.gov

### Chemical Dynamics Beamline at the ALS

*Tomas Baer*  
510.486.4754  
TBaer@lbl.gov

### National Center for Electron Microscopy(NCEM)

*Uli Dahmen*  
510.486.4627  
UDahmen@lbl.gov

### National Energy Research Scientific Computing Center (NERSC)

*Jon Bashor*  
510.486.5849  
JBashor@lbl.gov

### 88-Inch Cyclotron

*Claude Lyneis*  
510.486.7815  
CMLyneis@lbl.gov

## OTHER USER FACILITIES

### Bidirectional Radiometric Scanner

*Joseph Klems*  
510.486.5564  
JHKlems@lbl.gov

### Energy Efficient Fixtures Laboratory

*Michael Siminovitch*  
510.486.5863  
MJSiminovitch@lbl.gov

### Environmental Chamber

*Al Hodgson*  
510.486.5301  
ATHodgson@lbl.gov

### High Aspect Ratio-Microfabrication Laboratory (LIGA)

*Keith Jackson*  
510.486.6894  
KHJackson@lbl.gov

### Infrared Thermography Laboratory

*Dariusz Arasteh*  
510.486.6844  
D\_Arasteh@lbl.gov

### Low Background Counting Facility

*Dick McDonald*  
510.486.6204  
RJMcdonald@lbl.gov

### MoWitt: Mobile Window Thermal Test Facility

*Joseph Klems*  
510.486.5564  
JHKlems@lbl.gov

### National Tritium Labeling Facility (NTLF)

*Philip Williams*  
510.486.7336  
PGWilliams@lbl.gov

### Sky Simulator for Architectural Daylighting Design

*Joseph Klems*  
510.486.5564  
JHKlems@lbl.gov

31 October, 2000



For more information  
return to us by mail  
or fax to 510.486.6457

Lawrence Berkeley National Laboratory  
Technology Transfer Department  
INQUIRY FORM

Date of Inquiry \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Name \_\_\_\_\_

Position \_\_\_\_\_

Company \_\_\_\_\_

\_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

Phone # \_\_\_\_\_ FAX # \_\_\_\_\_

Email \_\_\_\_\_

Technology(s) of interest

(Please be specific; include names of investigators if possible)

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
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What does your company do?

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Small Business? Y N Woman-owned? Y N Minority-owned? Y N

Referred by \_\_\_\_\_

(For TTD Use Only)

Date of Action \_\_\_\_ / \_\_\_\_ / \_\_\_\_ Inquiry Handled by \_\_\_\_\_

Action to be taken \_\_\_\_\_

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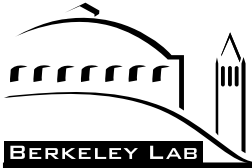
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General remarks \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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Ernest Orlando Lawrence  
Berkeley National Laboratory  
Technology Transfer Department  
1 Cyclotron Road, MS 90-1070  
Berkeley, CA 94720

**FIRST CLASS MAIL**

TO: Bruce Davies  
Marketing Manager  
Lawrence Berkeley National Laboratory  
Technology Transfer Department  
1 Cyclotron Road, Mailstop 90-1070  
Berkeley, CA 94720

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(Fold here, staple or tape closed, affix stamp, and mail to LBNL Technology Transfer Department)