



The
Lee • Osheroff • Richardson
North American prize

SPONSORED BY OXFORD INSTRUMENTS

Supporting young
scientists conducting
research employing
low temperature and/or
high magnetic fields in
North America



Oxford Instruments Superconductivity, world leader in the supply of low temperature and high magnetic field environments for scientific research, is proud to sponsor the Lee•Osheroff•Richardson Prize for research in physical science. The aim of this annual prize is to support the career development of young scientists conducting research employing low temperatures and/or high magnetic fields in North America. The Lee•Osheroff•Richardson Prize consists of a US \$8,000 cash prize, a certificate and trophy awarded by a committee of senior academics based throughout North America. The award to the prize winner will be made at an annual ceremony and will also include support to present their research at a relevant conference of their choice.

Oxford Instruments would like to thank David M. Lee, Douglas D. Osheroff and Robert C. Richardson for giving us permission to name the North American prize after them.

Winners of the 1996 Nobel Prize in Physics

The North American Prize for physics is named after David M. Lee, Douglas D. Osheroff and Robert C. Richardson who were joint winners of the Nobel Prize in Physics in 1996, for their discovery of superfluidity in ^3He .

They conducted the Nobel prize winning research during the early 1970's in the low temperature laboratory at Cornell University using apparatus they had built themselves to produce sample temperatures within a few thousandths of a degree of absolute zero.

Their findings proved that the helium isotope ^3He can be made superfluid at a temperature only about two thousandths of a degree above absolute zero. The discovery initiated intensive research on the special characteristics of the new quantum liquid.

Lee, Osheroff and Richardson have also received, among other awards, the Institute of Physics Sir Francis Simon Memorial Prize 1976, and the Oliver E. Buckley Solid State Physics Prize (American Physical Society) 1980 for the discovery of superfluidity in ^3He .

About Oxford Instruments Superconductivity Ltd

Internationally recognised as world leaders in superconductivity and ultralow temperature cryogenic environments, Oxford Instruments is driving innovation in these fields. The Company's leading-edge technologies support research in nanotechnology, solid state and condensed matter physics. These technologies also drive analytical instrumentation such as NMR and FTMS that are vital tools for drug discovery and life science applications.

Combining outstanding technical expertise, original thinking and a commitment to meeting customers needs, Oxford Instruments Superconductivity enables real advances both in research and commercial applications by providing the high quality technological environments needed to meet demanding requirements.

For further information, please visit: www.oxford-instruments.com



Objective of the Prize

The objective of the Lee•Osheroff•Richardson Prize is to promote and recognise the novel work of young scientists working in the fields of Low Temperatures and/or High Magnetic Fields in North America.

Oxford Instruments is aware that there is a critical and often difficult stage for many between completing their PhD and gaining a permanent research position. The company therefore would like to help individuals who are producing innovative work by offering assistance both financially and through promotion of their research work.

Research Area

Employing Low Temperatures and/or High Magnetic Fields.

Eligibility

Candidates should be producing work in research to a post doctoral level or equivalent (up to 7 years post PhD). Candidates can be of any nationality but research must have been predominantly conducted in a North American Institute. The work submitted for the Lee•Osheroff•Richardson Prize should be peer reviewed and preferably published.

Adjudication

Adjudication will be by a committee of senior academics based throughout North America.

Other awards

Oxford Instruments are also involved in supporting other science awards worldwide.

In March 1999, The "Millennium Science Forum" was founded to promote scientific exchange between Japan and Britain in the area Condensed Matter Science. To recognize excellent work conducted by young researchers in Japan, the Millennium Science Forum established the "Sir Martin Wood Prize". This annual prize is funded by a donation from Oxford Instruments plc and is awarded to 1 or 2 people.

Similarly, in Europe the Nicholas Kurti Prize is available to promote the work of young scientists conducting research employing low temperatures and/or high magnetic fields.

The Prize

The prize will be awarded March/April each year. The winner will receive a personal cheque for US \$8,000, trophy and commemorative certificate. The prize will also include support to present their research at a relevant conference of their choice.

Candidate's Nominator

The candidate should be nominated by a senior member of their department or institute.

Submission of Work

Nominations are to include a summary of achievements and reason for nomination. This is to be accompanied by two references that the steering committee can contact. Work should be at least peer reviewed and preferably published.

Number of Nominations

Each nominator may sponsor one applicant annually only.

Nomination Method

Nomination will take place in writing using the application form enclosed. All nomination forms, references and papers to be submitted in English.

Timescales

The Lee•Osheroff•Richardson Prize is launched in March 2004.

Nominations close on 30th September each year with the winner being notified in January and the prize awarded in March/April of the following year.

Please visit our website for the latest announcements at

www.oxford-instruments.com/scienceprize





Essential Points for Applicants of the Lee•Osheroff•Richardson Prize

1. Objective of the prize: To support and recognize excellent work produced by young scientists in North America.
2. Research Area: Employing Low temperatures and/or High Magnetic Fields.
3. Eligibility: Candidates should be producing work in research to a post doctoral level or equivalent (up to 7 years post PhD). Candidates can be of any nationality but research must have been predominantly conducted in a North American Institute. The work submitted for the Lee•Osheroff•Richardson Prize should be peer reviewed and preferably published.
4. Prize: The prize is awarded annually.

The prize consists of a personal cheque for US \$8,000 and the winner will receive a trophy and a commemorative certificate. The prize will also include support to present their research at a relevant conference of their choice.
5. Candidate's Nominator: The candidate should be nominated by a recognized expert in the field.
6. Number of nominations: Each nominator may sponsor one applicant only.
7. Nomination method: Please send the completed nomination form to the secretariat of the committee by the due date.

Fill out all the details together with two copies of three key publications together with two referees whom the judging committee may contact.

For further copies of the nomination form please visit our website www.oxford-instruments.com/scienceprize
8. Due date: 30th September of the year preceding the award year.
9. Selection method: The Selection Committee reviews each applicant and selects the winner. The selection criteria to be used by the Committee is available on request.
10. Notification of the first winner January 2005, thereafter each January.
11. Presentation of first prize March/April 2005, thereafter each March/April.
12. Contact address: The Secretariat, The Lee•Osheroff•Richardson Prize Committee, Oxford Instruments Superconductivity, 130A Baker Ave. Ext. Concord, MA 01742-2121.

Nomination Form

PLEASE USE BLOCK CAPITALS

Closing date for nominations 30th September for award the following year



THE NOMINATOR

Name	<input type="text"/>	Address	<input type="text"/>
Signature	<input type="text"/>	Telephone	<input type="text"/>
Title	<input type="text"/>	Fax	<input type="text"/>
Affiliation	<input type="text"/>	E-mail	<input type="text"/>

THE CANDIDATE

Name	<input type="text"/>	Title	<input type="text"/>	Affiliation	<input type="text"/>
Male	<input type="checkbox"/>	Female	<input type="checkbox"/>	Date of birth (dd/mm/yy)	<input type="text"/>
E-mail address	<input type="text"/>				
Candidate's home address	<input type="text"/>	Telephone	<input type="text"/>	Fax	<input type="text"/>
		Email	<input type="text"/>		
Affiliates address	<input type="text"/>	Telephone	<input type="text"/>		
		Fax	<input type="text"/>		
Indicate award year the nomination is being made for	<input type="text"/>				

THE RESEARCH

Theme of research for the Nicholas Kurti Prize

THE CANDIDATE'S CAREER HISTORY

Career summary of applicant (including any prizes awarded)

REFEREES

Referees whom the steering committee may contact

1. Name	<input type="text"/>	Telephone	<input type="text"/>
Affiliation	<input type="text"/>	Email	<input type="text"/>
2. Name	<input type="text"/>	Telephone	<input type="text"/>
Affiliation	<input type="text"/>	Email	<input type="text"/>

THE CANDIDATE'S ACHIEVEMENTS

Summary of Achievements and reason for nomination.

(Please summarize achievements, their impact & originality, and the role of the research group in a manner which can be understood by researchers in other fields).

Please continue on another sheet if needed.

THE MAIN PUBLICATIONS

List of main publications (Please give the title of paper, authors, journals name, volume, publication date and page. Please also attach two copies of up to three key papers relevant to the application).

Please continue on another sheet if needed.

All references and papers to be in English

Please send to: The Secretariat, The Lee•Osheroff•Richardson Prize Committee, Oxford Instruments Superconductivity, 130A Baker Ave. Ext. Concord, MA 01742-2121