



TJ Partners

TJ@20:Great Expectations

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Rashmi Agarwal, Class of 2005, (Dartmouth '09) completed her mentorship at the VA Medical Center in Washington, DC. Her research involved the study of liver cancer in patients where alcohol abuse plays a prominent role in tumor necrosis.

Dr. Raj Lakshman, Professor of Biochemistry, Molecular Biology and Medicine, and Chief of the Lipid Research Laboratory at the VA Medical Center, has many years of research experience with TJ students. "It has been nothing but pure joy to work with the most intelligent and motivated young students from the prestigious Thomas Jefferson High School for Science and Technology. It is always very rewarding to mentor students of such high caliber."

TJ's Mentorship Program provides a real world problem-solving experience for our students in government, corporate and university R&D laboratories.

Twenty years ago, a distinguished group of business leaders and educators forged a vision for a center of excellence in secondary mathematics, science and technology education in Northern Virginia. And this academic year, *TJ@20:Great Expectations* celebrates two decades of student achievement and faculty dedication.

Why "Great Expectations"? Our 1,750 students and their parents have great expectations for learning at TJ. Regionally, nationally and internationally, there are great expectations for TJ's students and faculty. We also have great expectations for our community's response to TJ's two-decades of educational achievement, continued ranking as the top academic high school, and even brighter promise for the future.

SAVE the Date! May 19-21, 2006, TJ's "Super Birthday Weekend", will feature alumni and faculty authors, alumni and faculty artists, student performances, "TJ@20:Great Expectations" corporate gala and a community-wide TJ Family Birthday Picnic. More details will follow in the coming weeks.

To volunteer on a birthday celebration planning committee, contact:
The Partnership Fund at 703.750.8316.

"Removing the Ceiling" for Research

Corporate philanthropy has deep roots at TJ. More than twenty years ago, hundreds of corporate leaders joined with educators and formulated curriculum, determined TJ's original laboratories, and contributed more than \$3 million in gifts and in-kind donations of equipment and products.

Today, their vision for a center of excellence has been realized – in fact, exceeded.

Thomas Jefferson High School for Science and Technology is a learning community of extraordinary interactions and dialogue. On its campus, students, faculty, mentors, and their ideas all come together in exciting ways – creating new synergies and envisioning new solutions that foster

both intellectual growth and research excellence. Student exploration, discovery and innovation are at the core of a TJ education.

This issue of *TJ Partners* highlights the work of '05 alumni **Rashmi Agarwal and Ann Kennedy** in health care and life sciences research. Their outstanding research is a small sampling of Jefferson student potential for adding to the body of knowledge in their subject areas, and real-world problem solving.

In coming months, the Partnership Fund will present additional student works that demonstrate TJ research potential—and advocate for philanthropy that "removes the ceiling" for research excellence in our

laboratories and classrooms.

Today, the "ceiling" exists. Funding for the acquisition and maintenance of equipment, technology and material that enables student research is well beyond the resources available in the school's general budget.

The Partnership Fund is launching a major corporate campaign to re-tool Jefferson for student research.

Led by **Fred Miller** (Parent '02, '03 and '05) of PricewaterhouseCoopers, the overall goals for the campaign are:

First, to advance the ongoing evolution of "best practices"

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Mission Statement

To ensure that Thomas Jefferson High School for Science and Technology remains a premier, cutting-edge school through financial support that provides a state-of-the-art scientific and technological educational environment for future leaders

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Class of 2005 student **Ann Kennedy** (Johns Hopkins University '09) conducted her senior research project at the Children's Research Institute at the Children's National Medical Center in Washington, DC. The focus of her research was on the pathway targeting of lymphocytes on the myelin sheaths which is responsible for multiple sclerosis.

Kennedy's mentor at the Children's Research Institute was **Dr. Li-Jin Chew**, Coordinator of Research and Assistant Professor, Center for Neuroscience Research.

CFC and UNITED WAY...

When you are asked to give at your workplace, remember our NEW Agency Designation #

8208
TJHSST
Partnership
Fund, Inc.

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- Robin Blomstrom ('05)**
- Cheryl Landseadel ('04)**
- Kathleen McBride ('02)**
Alumni Parents



Your support in 2004-2005 has been effectively invested in educational excellence....

The Partnership Fund is very grateful to alumni, current and alumni parents, and its corporate partners for their generosity...

The **2004/2005 Annual Campaign** raised more than **\$384,000** in gifts, pledges and in-kind donations:

More than \$15,000 in donor restricted gifts to our **Science and Technology Labs** is enabling the acquisition of an entry-level Rapid Prototyping System allowing students to produce a wide range of concept models and functional test parts quickly and inexpensively from CAD drawings.

More than \$5,000 in **Equipment/Capital** donor restricted gifts will enable the acquisition and installation of a ceiling mounted Projector in the Lecture Hall.

More than \$15,000 in donor restricted gifts to the **Jefferson Learning Community** will fund Summer IBET Curriculum work, enable faculty to attend the National Consortium of Selective Secondary Schools for Mathematics,

Science and Technology's annual meeting, and provide our principal with discretionary funds to respond to other academic needs.

More than \$11,000 in donor restricted gifts to the **Jefferson Endowment for Educational Excellence.**

Additional gifts included: CO2 Incubator for the Biotechnology Lab; one FTIR Spectrophotometer for the Emerging Technologies Lab; Two Gas Chromatography units for Chemical Analysis Lab; Power supplies for Microelectronics Lab; Transportation for the entire sophomore class to GMU for the Ethics Forum; Optics and radio frequency equipment for Optics & Modern Physics Lab; 6 microscopes, 3 water baths, 3 centrifuges for the Biotech Lab and Biology classrooms; 2 Sun Microsystems servers for the Computer Systems Lab; underwriting for 2005 Teknos (Student research journal); 5 yr. license for collaboration technology software;

new server software utilities for TJ infrastructure; Prof. Fabio Carrera's (WPI) "Saving Venice" IBET lecture and faculty workshop; in-service for 42 faculty at Northrop Grumman Advanced Capabilities Demonstration Lab in Reston; and hundreds of hours of consultative services for program development and advancement.

As a charitable foundation, the Partnership Fund raises private funds for TJ's science and technology research labs, classrooms, technology infrastructure and innovations in curriculum, faculty and staff development.

This academic year, the Partnership Fund is committed to presenting Jefferson with a 20th Birthday present of more than \$756,000 in gifts and pledges.

For more information contact: Joan Ozdogan, executive director at jkozdogan@tjhsst.edu or 703.750.8317

In FY05 TJ Parents Exceed ALL Prior Giving Records...

Our **current and alumni parents** have earned an "A+" for their generosity and commitment to advancing academics and research at TJ.

This past year, under the volunteer leadership of **Robin Blomstrom ('05)**, Chair and **Ernie Isenstadt ('06)**, Vice Chair of the Parents Committee, more than

\$135,000 was raised from the Back-to-School, the Year End, Spring and Senior "In Honor Of" Campaigns and United Way/CFC Campaigns.

This year's Parents Committee, led by **Ernie Isenstadt ('06)**, chair and **Ellen Ranard ('07)** vice chair, is working to exceed last year's success

through effective parent outreach and education.

For more information on joining the committee, contact **Ernie** at : ejiloch@aol.com 703.847.4711
Ellen at : esranard@aol.com 703.759.4266.

**2005/2006
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**Epstein Becker & Green, P.C. Establishes
TJ's First Corporate Fund Advancing Student Research**



Presenting Epstein Becker & Green's first annual research grant is Douglas Hastings, Sr. (Parent '05) Elizabeth V. Lodal (left) and Joan Ozdogan (right)

Epstein Becker & Green, P.C. (EBG), founded over 30 years ago as a law firm dedicated to the health care industry and ranking today as the nation's largest Health Care and Life Sciences Practice by *Modern Healthcare*, has announced a strategic partnership with Thomas Jefferson.

Over the next five years, the **"Epstein Becker & Green Fund for Excellence in Health Care and Life Sciences Research"** grant will be competitively awarded annually to enable and facilitate student research in health care and life sciences.

"EBG's commitment to Jefferson research recognizes the role that this Virginia Governor's school has played over the past twenty years in developing new leadership in life sciences and technology and encourages students in real-world problem solving," said Doug Hastings, Senior Partner and Chair of EBG's Health Care and Life Sciences Practice and a member of the Board on Health Care Services of the Institute of Medicine. **"Our hope is that our support will further stimulate groundbreaking research by the exceptional young minds at Jefferson that will, consistent with our mission, improve the U.S. health care system. We want to empower Jefferson students, as the future leaders of our health care and life sciences sector, to take research in new directions."** In addition to their philanthropic support, EBG will work with the Jefferson Partnership Fund on outreach to prospective partners among regional and national health care and life sciences industry stakeholders.

"We are extremely thankful to Epstein Becker & Green for their pace-setting commitment to advancing student research in this most vital area – health care and life sciences," said Elizabeth V. Lodal, principal. **"EBG's Corporate Named Fund is Jefferson's first – and is an exemplary model that we look forward to replicating in Physical & Chemical Sciences; Electrical & Computational Sciences; and Material & Engineering Sciences."**

Student applications for an EBG health care and life sciences research grant will be available on October 3rd. Application deadline will be November 4th—and grant awards will be announced on December 2nd. For more information, jkozdogan@tjhsst.edu

EBG is "removing the ceiling" for excellence in student research at TJ...

**What is a
Named Fund?**

A Named Fund is established for an individual or corporate partner's pledge commitment to a multi-year gift at an annual contribution level of \$10,000 or greater in support of Jefferson academics and research.

The fund is named in honor of their leadership philanthropy and their name is added to the permanent **Wall of Honor** in TJ's Main Lobby.



“Removing the Ceiling” for Research *(continued...)*

in mathematics, science and technology curriculum, and Jefferson’s dedication to developing, evaluating and sharing innovative ideas regionally, nationally and internationally. Second, to enrich classroom and laboratory instruction and mentorship. Third, to innovate individual student and overall laboratory research initiatives. Fourth, to broaden student opportunities for “real-world” interface with industry on new and emerging technologies. And finally, to assure availability and student access to state of the art equipment and material.

Investments in Innovative Student Research - The Partnership Fund is seeking corporate partnerships that provide financial, equipment, human capital and mentorship support for exploration, discovery and innovation in “real-world” problem solving in four major research areas:

- * **Electrical & Computational Sciences** - Research studies in the areas of: Artificial Intelligence, Audio Technology, Bioinformatics, Biometrics, Electronics, Information Technology, Nanotechnology, Prototyping, Robotics, Satellite Design, and Wireless Communications.
- * **Healthcare & Life Sciences** - Research studies in the areas of: Bioinformatics, Biomedical Engineering, Biometrics, Botany, Environment, Forensics, Genetics, Imaging, Medicine, Nanotechnology, Neurosciences, Oceanography, and Pharmacology.
- * **Material & Engineering Sciences** - Research studies in the areas of: Alternative Energy Systems, Architecture, Bio medical Engineering, Chemical Engineering, Civil Engineering, Imaging, Lithography, Manufacturing, Mechanical Engineering, Prototyping, and Robotics.
- * **Physical & Chemical Sciences** - Research studies in the areas of: Astronomy, Astrophysics, Chemistry, Forensics, Geology, Geophysics, Imaging, Nanotechnology, Oceanography, Optics, and Plasma and Laser Physics.

Investing in Outstanding Research Laboratories - Corporations may also partner with us to provide financial, equipment, human capital and mentorship support that directly advances one or more of Jefferson’s twelve Science and Technology Research Laboratories.

How Can You Help? There are so many ways to lend your support...

- * **Join the Partnership Fund’s Corporate Advisory Committee**
 - * Learn more about the corporate campaign
 - * Invite your employer to help advance TJ student research
 - * Identify other corporate partnership prospects
 - * Help us to tell the TJ story in our business community
- * **For more information, contact:**
Joan Ozdogan, Executive Director at jkozdogan@tjhsst.edu or 703.750.8317.



The Jefferson Partnership Fund Presents
“Tax Advantages of Charitable Gifting” on Tuesday, October 4, 2005
6:30 pm – 9 pm at TJ

TJ ‘08 parent Fred Baerenz and local attorney at law Weston Burnett will present a two-hour seminar on **“Tax Advantages of Charitable Gifting”** for current and alumni parents. The program will open with an informal briefing by TJ principal Elizabeth Lodal on the difference that philanthropy is making at TJ. The seminar will offer invaluable information on annual giving, charitable gift annuities and charitable remainder trusts – and will highlight benefits for both the donor – and their recipient charity.

Frederick P. Baerenz - Fred is a Certified Estate Planner, an Investment Advisor Representative, a Registered Principle and a Certified Senior Advisor. Fred and his wife Sheila own their own investment and estate planning company, Alpha Omega Group Inc., located in Great Falls, Virginia.

Weston D. Burnett, J.D., LL.M, CFP — Weston is an attorney at law at Cohen & Burnett, PC in McLean, Virginia where he specializes in Estate Planning, Asset Protection and Preservation Planning, Income and Gift Tax Planning, and Charitable Gifting such as charitable trusts, charitable annuities.

For more information and seminar registration, contact Karen Duke, kpduke@fcps.edu or call 703.750.8316