



FROM THE PRESIDENT

You might not think of Caltech when you think of advances in clinical medicine. But perhaps you should.

No, we're not building a hospital, or opening a medical school. But we are establishing enduring partnerships with top facilities in Southern California and beyond.

Though these partnerships—and our ever-sharpening focus on developing solutions to medical, biomedical, and biotechnological problems—we are taking vital research from laboratory benches to patients' bedsides.

But we can't do it alone. Which is why Joel Burdick is working with neurobiologists from UCLA and physicians from the University of Louisville to test his paralysis-reversing electrode array; it's why Yu-Chong Tai is working with ophthalmologists from USC to test the retinal implants he's devised. (Both projects are described in "Connecting the Dots," page 20.) It's why David Tirrell and Julia Kornfield are collaborating with scientists at UC San Francisco on implantable materials meant to heal damaged corneas. ("Some Assembly Required," page 38.)

It's why the Broad Foundation gave Caltech and UCLA \$5 million to start a Joint Center for Translational Medicine. And it's why, this summer, an anonymous donor gave \$3 million each to Caltech and City of Hope to strengthen scientific collaborations between these institutions.

We know that to accelerate the speed at which game-changing discoveries move from the laboratory to patient care, you need extraordinary people doing extraordinary work. And you need other extraordinary people to fund that research.

Take, for instance, Ben and Donna Rosen. Ben (BS '54) is a Caltech trustee, known for his leadership as a venture capitalist and in the computer industry—and now for his leadership at Caltech. Our three-year-old Donna and Benjamin Rosen Bioengineering Center has already become a hub for collaborations.

There's also the Anna L. Rosen Professorship—named for Ben's mother—which is held by Scott Fraser, whose bioimaging work is described in "Programming Molecular Apps" on page 26, and "Naturally Inspired" on page 34.

Among the more than 50 beneficiaries of the Rosen Graduate Fellowship Fund at Caltech are Hesham Azizgolshani and Derek Rinderknecht, who have helped develop tiny implantable valveless pumps (described in "Naturally Inspired").

Caltech's mission is "to expand human knowledge and benefit society through research integrated with education." In this issue of *E&S*, you'll see just how seriously we take that charge.

Yours in discovery,



Ben and Donna Rosen

e&s

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