



Cavitation on a modern ship propeller. This photograph was taken by Mark Duttweiler (PhD '01) in Caltech's Mechanical Engineering, Low Turbulence Water Tunnel. The flow is from right to left.



## N O T E F R O M T H E C H A I R

Enter the **second** issue of ENGenious.

*Thank you to all the alums who sent comments on the first issue of **ENGenious** and suggestions for future features, articles, and even design (!). We asked for your feedback and we got it. A full range of opinion arrived in our e-mail boxes expressing what we did right and what we can do better. We've begun incorporating many of your suggestions. Please continue with the feedback, as we hope issue-by-issue to evolve and improve.*

*Looking at the larger picture, the Division of Engineering and Applied Science itself is ever evolving—a collection of exceptional people doing exceptional things, and we count our alumni as integral partners in the process. The outstanding efforts of E&AS alumni in academic research, government, and private industry are a large part of the reason we have a level of visibility and impact far exceeding our size. And so beginning with this issue, we'd like to share stories of people out in the field, so to speak, doing wonderful things with their Caltech educations. The profile of alumnus Allen Puckett (PhD '49) starts a new feature we will be continuing in each issue.*

*This issue spotlights the Division's newest academic option, Bioengineering. We continue with meeting new faculty, getting up-to-date with emeritus faculty and recent events on campus, looking into research by faculty, and re-discovering one of the Division's thirteen options. This issue introduces the Division's newest center, CIMMS (Center for Integrative Multiscale Modeling and Simulation). And we visit a couple of campus resources, the Office of Technology Transfer, and the Sherman Fairchild Library of Engineering and Applied Science.*

*Finally, before you read on, I would like to take this opportunity to thank, on behalf of the Division, Gordon Moore (PhD '54) and his wife, Betty, for their truly extraordinary donation to Caltech this past fall. It's simply an enormous gesture of confidence in the Institute's past, present, and future. Their gift and that of the Gordon and Betty Moore Foundation, totaling \$600 million, will help us do what we do even better.*

*I hope you enjoy this issue and, as always, let us know how we're doing.*

Sincerely,



**RICHARD M. MURRAY**

*Chair, Division of Engineering and Applied Science*

