

MUDD DESIGN WORKSHOP III  
SOCIAL DIMENSIONS OF ENGINEERING DESIGN  
Proceedings of a Workshop  
17-19 May 2001  
Clive L. Dym and Langdon Winner, Co-Editors

# DESIGN

Center for Design Education  
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## Foreword

The papers in this volume represent the proceedings of Mudd Design Workshop III, “Social Dimensions of Engineering Design,” that was held on the campus of Harvey Mudd College in Claremont, California, on 17-19 May 2001. Supported by the National Science Foundation, The Boeing Company, The GE Fund, Hughes Electronics and Harvey Mudd College, this workshop brought together engineers and social scientists—in their roles as educators, researchers, and practitioners with design interests—to articulate social and societal issues in and for engineering design.

As at the two previous Mudd Design Workshops (MDWs), sessions were designed so that *everyone* could participate and be heard, as well as listen. Workshop sessions, each two hours, began with brief position statements from the session panelists and ended with open, moderated discussion. Panelists reflected on ideas and attitudes about things to be done in the future, rather focusing on current research. The panelists’ position papers follow below.

Each of the three luncheons featured a presentation. Clive Dym and Langdon Winner shared perspectives on the workshop theme from the viewpoints of engineering and of the humanities and social sciences. John McMasters discussed “Engineering as a Social Activity: Recent Boeing Experience” at the second lunch. At our last luncheon, Rich Phillips and Sarah Kuhn talked about “Reflected Values in the Design Process: What Have We Heard.”

We also had the benefit of two dinner speakers: On Thursday’s informal pizza-and-beer dinner, Larry Bucciarelli described “The Delta Design Game.” At Friday’s banquet, a former director of the Advanced Research Projects Agency (ARPA), Steve Lukasik, reminisced about being “Present at the Creation: Why Did the Internet Start? Where is it Going?”

The Advisory Committee that we (Clive Dym and Langdon Winner) chaired included L. L. (“Larry”) Bucciarelli, Jr., Massachusetts Institute of Technology; Todd Cherkasky, Sapien; Sarah Kuhn, University of Massachusetts-Lowell; Larry J. Leifer, Stanford University; Patrick Little, Harvey Mudd College; Gregory B. Olson, Northwestern University; John W. Prados, University of Tennessee-Knoxville; and John W. Wesner, Carnegie Mellon University. We are very grateful to the Committee for enhancing still further the Mudd Design Workshop biennial series, stimulating larger and ever-more diverse involvement and participation.

Finally, Harvey Mudd College continues to offer the MDW’s a very supportive environment. Dick Olson, Chair of the Hixon-Riggs Committee, deserves our thanks, as do Dean of Faculty Sheldon Wettack, President Jon Strauss, and College Relations’ Sally Rich Arroyo. But we *especially* and *emphatically* thank Holly Hauck of the Department of Humanities and Social Sciences. Holly took the initiative and, in so many ways, *she* made MDW III happen. Lastly, of course, we thank our several generous benefactors: the National Science Foundation, The Boeing Company, The GE Fund, Hughes Electronics, the Hixon-Riggs Fund of Harvey Mudd College, and the Hewlett Foundation.

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