

## **BRUCE C. BIGELOW, PhD**

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### **Summary:**

Twenty years of leadership and experience, in project management and engineering, for the development of world-class ground and space-based optical astronomical instrumentation.

### **Education:**

Dept. of Physics & Astronomy, University College London, England, PhD, 1996  
Dept. of Mechanical Engineering, University of California, Santa Barbara, BSME, 1985

### **Appointments:**

2007 - Current Research Astronomer, UCO Lick Observatory, UC Santa Cruz, CA  
Project manager for the wide field optical spectrograph (WFOS) for the Thirty Meter Telescope (TMT).  
2003 - 2007 Sr. Research Engineer, SNAP Telescope, Physics Dept, University of Michigan, MI  
1997 - 2003 Project Manager, Magellan IMACS Spectrograph, Carnegie Observatories, Pasadena, CA  
1995 - 1997 Project Leader, Keck ESI Spectrograph, UCO/Lick Observatory, UCSC, CA  
1992 - 1996 PhD Student & Research Fellow, Optical Sciences Lab, University College London  
1987 - 1992 Development Engineer, Keck HIRES Spectrograph, UCO/Lick Observatory, UCSC, CA

### **Instrumentation Consulting Engagements:**

2007 - Current University of Wisconsin, Madison, PFIS-NIR spectrograph project  
2006 - Current Massachusetts Institute of Technology, FIRE spectrograph project  
2004 - 2007 Massachusetts Institute of Technology, MagE spectrograph project  
2001 - 2004 South Africa Large Telescope, SALTICAM camera project

### **Awards:**

1992-1995 Overseas Research Student Awards, University College London, UK  
1993-1994 Research Awards, Graduate School, University College London, UK

### **Synergistic Activities:**

Reviewer, Keck LRIS-Blue, Critical Design Review, CalTech, CA, 1998  
Reviewer, GTC ELMER, Preliminary Design Review, IAC, Spain, 2001  
Reviewer, GTC OSIRIS, Preliminary Design Review, IAC, Spain, 2001  
Reviewer, SALT PFIS, Preliminary Design Review, UW, Madison, WI, 2001  
Reviewer, PanSTARRS FM Design Review, UH Manoa, HI, 2005  
Reviewer, Keck MOSFIRE, Preliminary Design Review, CalTech, CA, 2006  
Reviewer, WIYN ODI HEMI Critical Design Review, NOAO, Tucson, AZ, 2007  
Reviewer, Keck MOSFIRE, Detailed Design Review, UCLA, CA, 2007  
Reviewer, MMT BINOSPEC, Detailed Design Review, SAO, Harvard, MA, 2007  
Reviewer, HET HETDEX, Preliminary Design Review, MacDonal Observatory, TX, 2008