

Michael Jackson

University of Wisconsin-La Crosse

Awards # 0200746, 0078812 and 9982001

Dan Sutton, a physics major with an Optics Emphasis and Biomedical Concentration at the University of Wisconsin – La Crosse, has used the laser magnetic resonance technique to investigate the NCN radical in the infrared. This work was performed at the Physical and Theoretical Chemistry Laboratory, University of Oxford, England, in collaboration with Dr. John Brown and Dr. Christian Hill, sponsored in part through NSF awards #0200746 (International Engineering and Science) and #0078812 (RUI)

Dan has also been involved in the discovery of optically-pumped molecular laser emissions in the far-infrared. Thus far, Dan has co-authored one manuscript published in *Applied Physics B*, **74**, 613-614 (2002) for his research in this area. A second manuscript, performed in collaboration with Dr. Elza Vasconcellos of UNICAMP, Brazil during her visit to the FIR laser laboratory at UW-La Crosse, is currently under review. This research was sponsored in part through NSF awards #9982001 (CRIF) and #0078812 (RUI).



Undergraduate Dan Sutton (center) of the University of Wisconsin – La Crosse with Representative Ron Kind (D, WI-3) (left) and faculty research advisor Mike Jackson (right) at the Council on Undergraduate Research sponsored poster session on Capitol Hill on Tuesday April 1, 2003.