



## Illinois Wesleyan University Digital Commons @ IWU

---

John Wesley Powell Student Research  
Conference

2002, 13th Annual JWP Conference

---

Apr 21st, 1:15 PM - 2:15 PM

# Development of a Data Acquisition and Analysis System

Michael V. Mores, '02

*Illinois Wesleyan University*

Jeremiah Williams, Faculty Advisor

*Illinois Wesleyan University*

Follow this and additional works at: <http://digitalcommons.iwu.edu/jwprc>

---

Michael V. Mores, '02 and Jeremiah Williams, Faculty Advisor, "Development of a Data Acquisition and Analysis System" (April 21, 2002). *John Wesley Powell Student Research Conference*. Paper 19.  
<http://digitalcommons.iwu.edu/jwprc/2002/posters3/19>

This Event is brought to you for free and open access by The Ames Library, the Andrew W. Mellon Center for Curricular and Faculty Development, the Office of the Provost and the Office of the President. It has been accepted for inclusion in Digital Commons @ IWU by the faculty at Illinois Wesleyan University. For more information, please contact [digitalcommons@iwu.edu](mailto:digitalcommons@iwu.edu).

©Copyright is owned by the author of this document.

Poster Presentation P16

**DEVELOPMENT OF A DATA ACQUISITION AND ANALYSIS SYSTEM**

Michael V. Mores and Jeremiah Williams\*  
Department of Physics, Illinois Wesleyan University

In order to study the plasma state, we have begun constructing a radio-frequency plasma device at Illinois Wesleyan University. In this poster, we present the data acquisition system that was written for this project using LabVIEW. We have also written routines to extract relevant information, such as plasma temperature, density, and magnetic field fluctuations, from standard plasma diagnostic tools such as the Langmuir Probe and the B-Dot Probe.