

Workshop Report for the FTMS Interest Group, ASMS 2012

This year's FTMS Workshop was presided over by Joshua Sharp (chair) and Amy McKenna (co-chair). This workshop occurred from 5:45 – 7:00 on Monday, May 21st in Vancouver, BC. The workshop this year was very well attended, filling the room assigned to us with an estimated 150 attendees. The format of this year's workshop was the presentation of four short oral presentations, with ample time remaining for discussion and questions.

Our first presentation was by Joshua Driver from the Amster lab of the University of Georgia. Joshua presented initial data from particle in cell simulations comparing different geometries of compensated ICR cells. This presentation was followed by a lively discussion of the methodology and results of the simulations. Our second presentation was by Nathan Kaiser from the National High Magnetic Field Laboratory. Nathan gave a brief explanation of the effects of excitation and detection plate angular distance. He then described the circuit developed to allow for excitation and detection in an ICR cell from a single pair of 180° electrodes, along with some preliminary results. Questions followed regarding the design of the circuit and practical limitations of the diodes used. Our third presentation was given by Chad Weisbrod from the Bruce lab of the University of Washington. Chad gave a presentation on the development and application of a real-time informatics workflow to FTMS data, and then discussed the application of real-time informatics to an accurate mass and MS³ analysis method for protein cross-linking. Our last talk was given by Don Rempel from the Gross lab of Washington University. Don gave a brief overview of compensated traps, and then described the theory and design behind the 3 auxiliary ring compensated trap design from the Gross lab. Following Don's discussion and some brief questions, the meeting was adjourned by co-chair Amy McKenna.