

**Presentation Schedule:**

<b>Time</b>	<b>Category</b>	<b>Title</b>	<b>Description</b>	<b>Presenter</b>	<b>Reference No.</b>
2:05 pm	Instrumentation	Mass Spectrometer Miniaturization	Miniaturization of an array detector as a component of a mass spectrometer allowing for significant reduction in overall spectrometer size and increased portability	Randy Pilkington (UNI)	N/A
2:09 pm		Electrode array having a thin flexible substrate	The microelectrode array and the thin film substrate combine to provide improved contact density and spatial resolution that are crucial for the research in electrophysiology and neurology.	Shannon Sheehan (UI)	<a href="#">00075</a>
2:13 pm		Reagentless Optical Analyte Detection System	The microspectrometer collects one or more parameters of the analyte in the infrared spectrum and reports the concentration data for this analyte in real-time.	Catherine Koh (UI)	<a href="#">05043</a>
2:17 pm		Electronic Support System for Biological Data Sensor	This system is capable of providing the control required to organize the acquisition of biological sensor data as well as the proper metered therapeutic response (for example, insulin for diabetes patients).	Catherine Koh (UI)	<a href="#">05049</a>
2:21 pm		Dental Brush Assembly and Methods of Making the Same	A new dental instrument, specifically designed to form and sculpt dental resin composite filling materials during restoration procedures.	Sean Kim (UI)	<a href="#">07084</a>
2:25 pm		Methods and Devices for	Once this tool is engaged, it can be	Sean Kim (UI)	<a href="#">09025</a>

		Arytenoid Repositioning	used to push and pull the arytenoid process to perform optimum placement in surgical procedures for patients suffering from laryngeal paralysis.		
2:29 pm		Surgical Pressurization Device and Methods of Using Same	This device is able to maintain desired blood-gas exchange in the heart and provide improve irrigation and valve leak detection during surgery.	Catherine Koh (UI)	<a href="#">10070</a>
2:33 pm		Compensator-Based Intensity Modulated Brachytherapy	In order to more completely and safely treat the area covered by the irregularly-shaped tumor mass, the inventors have developed a device and method for introducing a compensator shield that releases only the radiation in the area of the tumor growth, while blocking any radiation release that would harm the surrounding normal tissue.	Catherine Koh (UI)	<a href="#">11015</a>
2:37 pm		Vascular Prosthetic Assemblies	This collapsible aortic valve prosthesis incorporates a novel design to ease percutaneous delivery.	Catherine Koh (UI)	<a href="#">11057</a>
2:41 pm		In-device Controller for Rotating Endoscopic Lenses	This addition to the conventional arthroscopic camera enables the user to manipulate the camera rotation with a convenient toggle switch that allows the user to maintain their grip on the arthroscope.	Catherine Koh (UI)	12024

2:45 pm	Imaging/ Instrumentation	Dual-Color Auto-Calibration Scanning-Angle Evanescent Field Microscope	Researchers have developed a new microscope that can be used for live cell imaging as well as for examining single molecule dynamics.	Lisa Lorenzen (ISU)	<a href="#">ISURF #3850</a>
2:49 pm	Imaging/ Instrumentation	Multiplexed Detection and Live Cell Imaging Tool	A novel method and tool for live cell imaging that can also be used for multiplexed detection schemes has been developed.	Lisa Lorenzen (ISU)	<a href="#">ISURF #3851</a>