Poster Session

Title:	P. 7	Photopolymerization of crosslinked proton conducting membranes
Speaker:		Michael Kellner, Vienna University of Technology, Austria
Contact:		michael.kellner@tuwien.ac.at
Co- Author(s):	Works and a second state	P. Radovanovic, Jovan Matovic, R. Liska
Abstract:		Polymer electrolyte membranes for fuel cell applications need high proton conductivity and low permeability for gase like oxygen or hydrogen and liquids like water or methanol, respectively. As proton conductive monomer, primarily 2-acrylamido-2-methylpropane sulfonic acid (AMPS) and 2-sulfoethyl methacrylate (SEM) were used. The monomers were crosslinked with various hydrophobic and hydrophilic multifunctional monomers.
	TOTAL PROPERTY AND	Polymer membranes were filled with the monomer formulations and UV cured. Conductivity, water uptake, weight gain and methanol permeability was used to characterize the new hybrid materials. Selected material combinations showed conductivity similar to normally applie nafion.
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