Modeling Oxygen Permeability in Biodegradable Polymer Films for Food Packaging

1. TG | TOPICAL CONFERENCE: INNOVATIONS OF GREEN PROCESS ENGINEERING FOR SUSTAINABLE ENERGY AND ENVIRONMENT:

   (a) Conversion of Solid Wastes to Energy and/or Product This session solicits presentations on innovative processing technologies for conversion of solid wastes into reusable energy and/or products to reduce environmental footprints. The solid wastes of large volume and energy content are of interest, such as municipal solid wastes, agricultural wastes, forestry wastes, and industrial wastes (spent cars, tires). Hazardous and toxic wastes are not covered by this technical session.

      i. Chair Frank Petrocelli Principal Research Associate: Air Products and Chemicals, Inc 7201 Hamilton Boulevard Tonnage Gases, Equipment and Energy - Technology Allentown, PA 18195 Email: petrocfp@airproducts.com

      ii. Co-Chair Sulin Chen Washington State University LJ Smith Hall Department of Biological Systems Engineering Pullman, WA 99163 Email: chens@wsu.edu – Will not be published

      iii. Co-Chair Gibson Asuquo Project manager: Office of the Industrial Technology Program Department of Energy Golden, CO 80401 Email: gibson.asuquo@go.doe.gov – Will not be published

2. 15 | FOOD, PHARMACEUTICAL & BIOENGINEERING DIVISION: Advances in Food and Bioprocess Engineering

   (a) This session will highlight recent advances in bioprocess and food engineering. Papers addressing issues and novel technologies related to food and bioprocessing from both academics and industry will be considered for presentation in this session.

      i. Chair Ying Jin Postdoc: Ohio State University 140w 19th Ave, 125A Chemical engineering Columbus, OH 43210 Email: jyzr2011@gmail.com Alternate Email: jyzr2011@gmail.com – Will not be published

ii. Co-Chair Yinming Du Research Scientist: Givaudan Flavors Corporation OH Email: yinmingdu@gmail.com – Will not be published

3. TG | TOPICAL CONFERENCE: INNOVATIONS OF GREEN PROCESS ENGINEERING FOR SUSTAINABLE ENERGY AND ENVIRONMENT: Green Product Design

   (a) This session is targeted for discussions of the latest advancements in design and synthesis of green consumer products with decreased toxicity, and more sustainable usage and manufacturability. The ingredients of interest to this session are greener solvents, polymer building blocks, surfactants from renewable sources, bio-catalysis, fragrances, and bulk chemicals. The consumer products that reduce consumption of resources (water, energy) and minimize environmental emissions are also of interest, such as washers, driers, and refrigerators. Specific industry sectors of interest to this session are pharmaceuticals, CPG (cleaning, cosmetics, and food), textile, appliances and their raw material suppliers.

      i. Chair Kaustav Ghosh Lead Research Engineer: Whirlpool Corporation 750 Monte Road MD 5155 Benton Harbor, MI 49022 Email: kaustav_ghosh@whirlpool.com – Will not be published

      ii. Co-Chair Wei LIU Chief Engineer: Pacific Northwest National Laboratory 902 Battelle Boulevard Energy and Environment Richland, WA 99352 Email: wei.liu@pnl.gov – Will not be published

      iii. Co-Chair Z. Conrad Zhang Professor: Dalian National Laboratory for Clean Energy 457 Zhongshan Road DNL602 Bioenergy Dalian, 116023 China Email: zczhang@yahoo.com – Will not be published

4. O8 | MATERIALS ENGINEERING AND SCIENCES DIVISION:

   (a) Naturally-Derived and Sustainable Biomaterials Cosponsored By: Environmental Division (09) This session invites papers on developing materials derived from natural and sustainable sources as facilitators and promoters of healing and regeneration as well as for the delivery of prophylactic and therapeutic treatments. This session will focus on showing structure/property relationships of naturally-derived or naturally-inspired biomaterials and research involved in surmounting obstacles associated with the processing and broader use of sustainable biomaterials. Some examples of naturally-derived materials are as follows: bladder submucosa, small intestinal submucosa, collagen, cellulose, chitosan, and alginate. Research papers presenting in vitro and in vivo biocompatibility assessments and showing potential for use in regenerative medicine or drug delivery are encouraged to participate in this session.

i. Chair Zhiqiang Cao Assistant Professor: Wayne State University Department of Chemical Engineering and Materials Science Detroit, MI 48202 Email: zcao@wayne.edu – Will not be published

ii. Co-Chair Bret Ulery U Chicago Email: bulery@uchicago.edu – Will not be published