

April 2022
OUR 101ST YEAR

The Link Newsletter



Striving toward a Circular Economy: Challenges and Opportunities for Materials Production and Processing

The concept of a circular economy is influencing more and more materials production and use. Many companies are looking to new technologies to help eliminate waste (because any pollution is a product you're not selling!) and increase productivity and efficiency through sustainable processes. From designing products for high performance, durability, and recycling, optimizing the use of raw materials, and capturing and using waste streams, there are many new materials technologies of growing interest. Let's look at both the low-hanging fruit and the long-term research that will move this concept forward. Examples of innovations in the steel, aluminum, and titanium industry will be discussed.



Chapter Technical Meeting

Monday, April 18, 2022

Purdue Polytechnic
Renaissance Studebaker District
635 S. Lafayette Blvd., Suite 128
South Bend, IN 46601

Student Poster Session and Social Time: 6:00pm

Dinner: 6:30pm

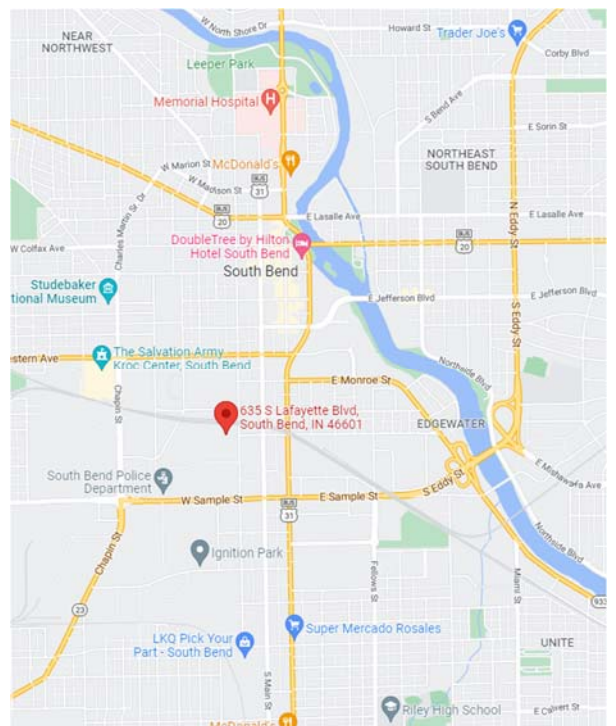
Presentation: After dinner

Dinner – Italian Buffet by Papa Vino's \$20

Please make your reservation by April 14:

David Guisbert deguisbert@aol.com

Virtual presentation is available, please make reservation for a Zoom link.



Parking is available near entrance on south side of building – no permits required.



Toni Marechaux, PhD, FASM
 Lead Analyst, Booz Allen Hamilton, Washington, DC
 ASM International Board of Trustees

Dr. Toni Marechaux currently serves as a lead analyst at the Advanced Research Projects Agency for Energy (ARPA-E) in the US Department of Energy. Previously, she served as a senior analyst for the Defense Science Board and a science advisor to ZIN Technologies in support of space experiment design. Dr. Marechaux also spent five years at the National Academies of Sciences, Engineering, and Medicine. During her tenure there, she directed more than 30 studies for the National Materials Advisory Board and the Board on Manufacturing and Engineering Design. In addition to serving in many capacities supporting professional societies in materials science, Dr. Marechaux has served as a judge for the XPRIZE Foundation, and has judged many local and regional science fairs including the national Regeneron Science Talent Search. She graduated from the University of Illinois with a B.S. in Metallurgical Engineering and from Case Western Reserve University with a Ph.D. in Materials Science and Engineering. She maintains an abiding interest in abolishing barriers to new technology applications and in engineering solutions for sustainable development.



ASM Notre Dame Chapter’s annual election for officers and board members will be held during the April meeting

2021-2022 Meeting Schedule

Date	Activity	Speaker	Location
Monday 10/18/21	Lock Joint Tube - Tour		Lock Joint Tube South Bend
Tuesday 11/09/21	Austenitic Stainless Steel Alternatives to Ferritic Stainless Steels for Exhaust Systems – to Increase Temperature Capability Another 100 – 200 Degrees	Marc Glasser	Papa Vino’s Mishawaka
Monday 01/17/22	Springs and Things	Rick Gordon	Virtual
Monday 02/21/22	Bodycote’s Kolsterising® technology	Douglas Ridgeway	Virtual
Monday 04/18/22	Trustee Visit - Past Chairmen’s Night - Student Night	Toni Marechaux	Purdue South Bend
May 2022	Cultivate Food Rescue – Service project		1403 Prairie Ave. South Bend
June 2022	Tour of Welch Center		LMC Benton Harbor