



**Baker
College**

Advancing Photonics and Laser Technician Education in Michigan

Goals

- Increase number of well-prepared photonics technicians
- Develop new curriculum: emerging photonics applications and high power laser material processing
- Enhance the photonics infrastructure at the college

Impact

- Graduates hired by multiple photonics companies in Michigan
- Program curriculum: engineering technology foundation combined with 6 photonics specialty courses
- Advanced Laser Applications Lab: 1kW fiber laser integrated with industrial robot to provide hands-on training at industry level

Activities

- Baker College Photonics Symposium: “Photonics - An Essential Technology for the 21st Century”, Apr. 2018
- Prismatic Magic Laser Show: presented to 600 middle school students across Michigan, Mar. 2018
- Promoted photonics at the “Back To The Bricks” festivals in Flint, MI attended by people of all ages, Aug. 2017, Aug. 2018

Presentations

- “Photonics and Laser Technology Program”, ASEE North Central Section Conference 2018
- “The Increasingly Important Role of Photonics in the Automotive Industry”, HI-TEC 2018
- “Photonics Technician Education: an Update”, SPIE Optical Engineering + Applications Conference 2018
- “Lidar Technology and Its Diverse Applications”, HI-TEC 2020



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