From Lab Bench to Plant: Elements of Chemical Process Scale-Up

A week-long, hands-on workshop for credit or noncredit for students, educators, entrepreneurs, professionals

Former Pfizer staff with 100+ years of total professional experience at the Holland, Mich., site will provide attendees with the operational perspectives of industrial chemists, chemical engineers, environmental/safety personnel, and plant operators.

- chemical plant equipment
- process safety management
- environmental regulations and waste management
- chemical process batch record preparation
- scale-up process economics
- chemical testing of raw materials intermediates, and products
- case studies and “war stories”

**Noncredit option:** Register at [http://bioeconinst.msu.edu/lab2plant](http://bioeconinst.msu.edu/lab2plant); cost - $695

(Housing and daily transportation not included. Teachers and full-time students may qualify for $495 educational discount; call (517) 432-4499.)

**Credit option:** Current Michigan State University students may register for CEM 890, Section 701, when the MSU Registrar opens Summer 2017 course registration online. Daily transportation not included.

Please call (517) 432-4499 if you need special accommodation.

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