

# CHICAGO SECTION AMERICAN CHEMICAL SOCIETY

## MONTHLY PROGRAM MEETING & HOLIDAY PARTY

Joint with Iota Sigma Pi, the women chemists' honor society  
PLUS Food & Toy drive, door prizes, Iota Sigma Pi raffle, and photo activity

**NORTH CENTRAL COLLEGE, PLUS PURDUE-NW SATELLITE**  
**FRIDAY, DECEMBER 14, 2018**

### Prof. Dick Co “Solar Fuels: Turning Thin Air Into Gasoline”



- Northwestern University -  
Chemistry Dept., ANSER Center

Many of today's prevalent renewable energy sources, such as solar and wind, are inherently intermittent: energy generation ceases when the sun goes down or when the wind stops blowing. Energy *storage* is therefore essential for adoption of alternative energy. Solar fuels offer a solution. Broadly defined as technologies that harness the sun's energy and store that energy in the form of chemical bonds, liquid solar fuels technology has enormous potential to supply tremendous amounts of carbon-neutral energy. Despite active vigorous research, a chasm exists between academic insights and the realization of economically viable devices that generate fuel directly from solar energy.

In this talk, I will describe solar fuels, discuss state-of-the-art technologies, and present a strategy that hones in on the very definition of “innovation” to commercialize solar fuels technologies. Further, I will present a simple educational outreach activity that illustrates how light energy from the sun is captured and converted into electrical energy.

#### PROGRAM

- 5:30 – 6:30 Registration, Social hour with photo album activity, food and toy drive
- 6:30 – 7:30 Dinner
- 7:30 – 7:50 Announcements (incl. presentation of the 2019 Chair's gavel to Tim Marin), raffle pull, and door prizes
- 7:50 – 8:45 Lecture by Dr. Co

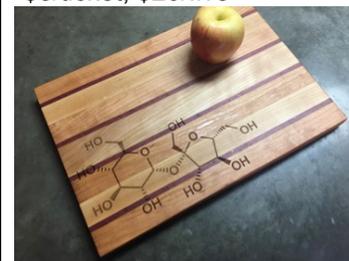
#### Food & Toy Drive, Door Prizes



#### Photo Album Activity: Who Is This?



#### Iota Sigma Pi raffle: four chemistry cutting boards \$5/ticket, \$20/five



- **MAIN SITE (With live speaker): North Central College (Naperville, IL)**
- **STREAMING LOCATION: Purdue University Northwest (Hammond, IN)**

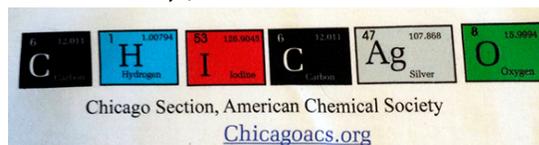
**REGISTRATION & INFO:** <http://chicagoacs.org/meetinginfo.php?id=136>

BUFFET DINNER, provided at NCC, but not Purdue-NW: \$20 ACS and AIChE members, \$22 non-members

Register for dinner by noon Monday, December 10

LECTURE IS FREE. Register “lecture-only” by noon Thursday, Dec. 13

C-H-I-C-Ag-O Elements T-shirt: \$15, order by noon Thursday, Dec. 13



QUESTIONS OR NON-WEB RESERVATIONS? Please contact the Section Office: 847-391-9091, [chicagoacs@ameritech.net](mailto:chicagoacs@ameritech.net)