



ANNOUNCEMENT + CALL FOR POSTERS

FRIDAY, JANUARY 23



**Chicago Sections of the American Chemical Society &
American Institute of Chemical Engineers**

Lecture & Poster Session

at European Crystal Banquets, Arlington Heights

Bioinspired Sponges: Functional Metal-Organic Frameworks (MOFs)

Dr. Omar Farha



Northwestern University and NuMat Tech Inc

Metal-organic frameworks (MOFs) are an emerging class of solid-state materials built from metal-based nodes and organic linkers. They exhibit permanent porosity and unprecedented surface areas which can be readily tuned through coordination chemistry at the inorganic node and organic chemistry at the linkers. The high porosities and surface areas are highly attractive in the context of chemical threat filtration and decomposition as well as other catalytic processes. As exemplified by many catalytic enzyme assemblies in nature, site-isolation is a powerful strategy for performing catalytic reactions to synthesize complex molecules in an efficient way. MOFs provide an exciting platform for deploying different homogenous catalysts as building blocks. Importantly, the catalytically active moieties in these materials can be made in a site-isolated fashion and the cavities surrounding them can be engineered to conceptually mimic enzymes. This talk will address the catalytic activity of few examples of such MOFs.

PROGRAM

January 23, 2015 (Friday)

5:00 - 7:00 Registration & Social Hour

5:00 - 7:00 Poster Session

7:00 - 8:00 Dinner

8:00 - 8:15 Introductory remarks by AIChE and ACS Chairs

8:15 - Talk - Omar Farha

REGISTRATION

(Includes dinner)

\$20 Student Member

\$37 Member

\$39 Non-member

chicagoacs.org

Where? European Crystal Banquets, 519 W. Algonquin Rd. Arlington Heights, IL 60005
If you are driving and have available seats or need a ride, please email Skylar Carlson, scarls21@uic.edu

CALL FOR POSTERS:

Abstract guidelines: 500 words, single spaced, Arial 12 pt font. Graphics welcome, however, they will not be printed in color. Abstract and graphic not to exceed 5.25 inches.

Abstract deadline: January 5, 2015 Email to: scarls21@uic.edu