

*The National Academies of*  
SCIENCES • ENGINEERING • MEDICINE

**CHEMICAL ENGINEERING IN THE 21<sup>ST</sup> CENTURY: CHALLENGES AND OPPORTUNITIES  
VIRTUAL MEETING  
August 25-26, 2020**

<https://nasem.zoom.us/j/92216839535?pwd=WDFaQkhjUW5VY2Y5YnBPWFhrZjBadz09>

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**Tuesday August 25, 2020  
10:00 AM – 5:30 PM EDT**

**CLOSED SESSION (10:00 AM – 11:15 AM EDT)**

**OPEN SESSION**

**11:15 AM      Session I: Biological Systems and Big Data**

11:15: *Jay Keasling*, University of California, Berkeley  
12:15: *Hang Lu*, Georgia Institute of Technology

**1:15 PM      *Lunch Break***

**1:45 PM      Session II: Modeling and Computational Methods**

1:45: *Frank Doyle*, Harvard University  
2:45: *Jean Tom*, Bristol Myers Squibb

**3:45 PM      *Break***

**4:00 PM      Session III: Intersection of Chemical Engineering and Biology**

*Frances Arnold*, Caltech

**CLOSED SESSION (4:30 PM – 5:30 PM EDT)**

**Wednesday August 26, 2020**  
**10 AM – 5:30 PM EDT**

**CLOSED SESSION** (10:00 AM – 1:45 PM EDT)

1:45 PM     **Session IV: Pharmaceuticals**

*Kelvin Lee*, University of Delaware

2:45 PM     *Break*

**CLOSED SESSION** (3:00 PM – 5:30 PM EDT)