



# PRESENTATION TIMES

## Free Choice 11AM-12:45PM

11:00AM ~ **"The Nu-Clear"** Moorestown Friends Academy

Hannah Thomson, Zach Swope, Ahimsa Aradhya, Elizabeth Huettl

11:20AM ~ **Yihan Wu**, High Technology HS

11:30AM ~ **"Oh!-Zone"** Harrison Ng, Freehold HS

11:40AM ~ **Indira Roy**, Chatham HS

11:50AM ~ **"Resurgence"** Ubaidullah Samadi, Bradenton Prep. Academy

12:00PM ~ **"Bio-Generator"** Rahul Kanani & Kush Patel, John P. Stevens HS

12:15PM ~ **"The Nuclear Force"** John P. Stevens HS

Ambika Kandasamy, Kavya Velmurugan, Surabhi Panda

12:30PM ~ **"Harambe's Private Lake"** John P. Stevens HS

Pranav Krishna, Rohit Varanasy, Karan Menon

## Renewable Roadblocks 1PM-2:30PM

1:00PM ~ **"New Clear Vision"** Nelson Lin, High Technology HS

1:20PM ~ **Christopher Inkiow**, West Windsor-Plainsboro HS North

1:30PM ~ **"Energy Warriors"** Charles Ma, Montgomery HS

1:40PM ~ **"Curvature-Driven Motion"** Moorestown Friends Academy

Jiacheng Pang, Ziyu Wang, Alexander Barrett

1:50PM ~ **"The Energizers"** Kelly Yu & Grace Wu, John P. Stevens HS

2:00PM ~ **"We Got the E/t"** John P. Stevens HS

Suhas Etigunta, Shan Jiang, Raj Malhotra, Rishabh Kasarla

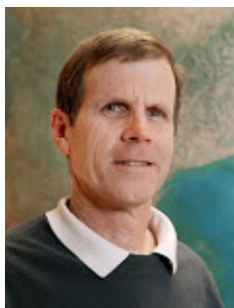
# JUDGING PANEL

## CLAIRE WHITE *Keynote Speaker*



Assistant Professor Claire White leads the Sustainable Concrete and Carbon Storage Group (SCCSG) at Princeton University in the Department of Civil & Environmental Engineering and the Andlinger Center for Energy and the Environment. Dr. White's research group centers on investigating the long-term behavior of low-CO<sub>2</sub> concrete and the mineralization processes during CO<sub>2</sub> capture and storage. Key topics of research include: durability of alkali-activated cements; atomic and nanoscale morphology of cementitious materials; reaction kinetics of cement formation; amorphous carbonate materials; combined modeling/experimental methodologies; Monte Carlo methods; ab-initio calculations; total scattering analysis. [white.princeton.edu]

## THOMAS G. KREUTZ



Thomas Kreutz is the Senior Technical Staff Member in the Energy Systems Analysis Group (ESAG), a part of the Andlinger Center for Energy and the Environment.

Kreutz's interests are in modeling advanced energy conversion systems, in particular: production of hydrogen, electricity, and CO<sub>2</sub> (for sequestration) from coal, residential scale, natural gas-fired PEM fuel cell cogeneration, fuel cell hybrid vehicles: power system design and vehicle performance modeling, reforming liquid fuels to hydrogen for mobile and stationary power applications, gasification of biomass and black liquor for combined cycle generation of electric power, and fuel cells, gas turbines, and hybrid/combined cycles for electric power generation. [acee.princeton.edu]

## HANS MEERMAN



Hans Meerman is a Postdoctoral Research Associate in the Energy Systems Analysis Group (ESAG), a part of the Andlinger Center for Energy and the Environment.

Hans is interested in the technical and economic aspects of energy conversion systems which can bridge the gap between our current high-carbon energy infrastructure and a sustainable low-carbon energy infrastructure. He specialises in modelling the gasification of carbonaceous feedstock (biomass, coal and natural gas), production of transportation fuels (hydrogen, gasoline, diesel and jet fuel) and electricity from syngas and applying CO<sub>2</sub> capture and sequestration (CCS). [acee.princeton.edu]