

# **Macromolecular, Supramolecular and Nanochemistry (MSN) Program**

**MSN Program Directors:**

**Kenneth R. Carter, Colby Foss, Tomislav Pintauer,  
& Suk-Wah Tam-Chang (Lead)**

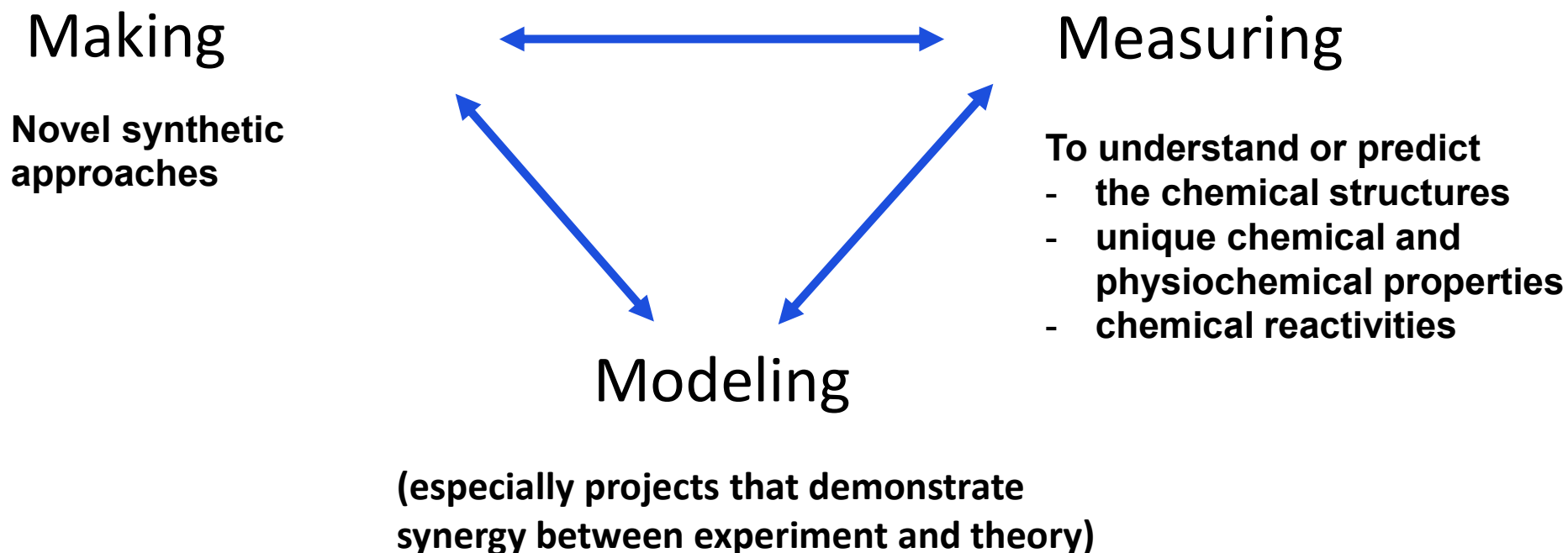
**(Thanks to Dr. George Janini and Dr. Ryan Jorn who served in MSN in FY23.)**

**Administrative Support:**

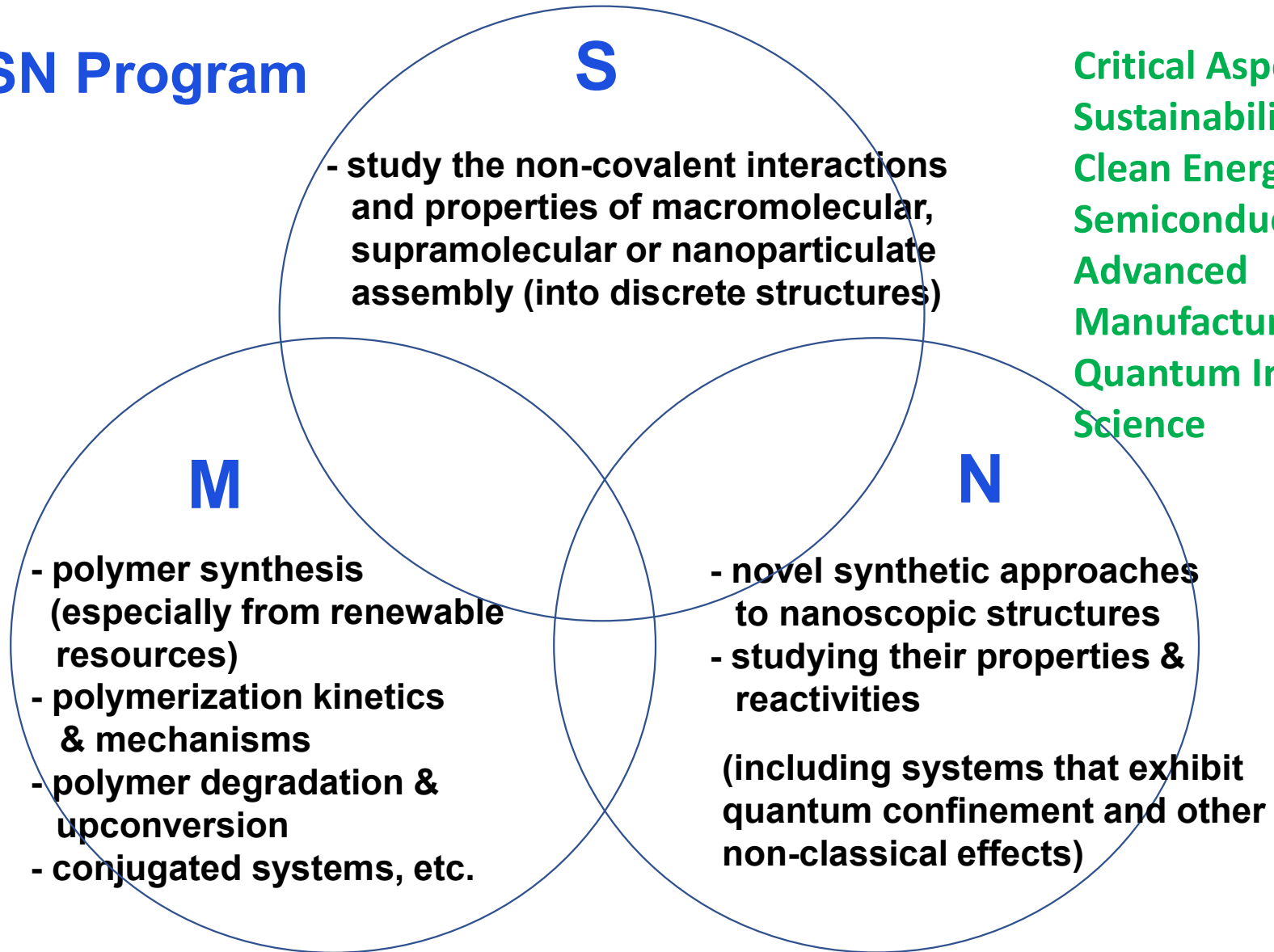
**Nancy Carey**

# Macromolecular, Supramolecular and Nanochemistry (MSN) Program

Basic research that addresses fundamental questions and advances knowledge regarding the **chemistry** of macromolecular, supramolecular and nanoscopic structures.



# MSN Program



**Critical Aspects of Sustainability (CAS);  
Clean Energy;  
Semiconductors;  
Advanced Manufacturing  
Quantum Information Science**

## Topics **NOT** of Interest to MSN

**Proposals for which the primary focus is on the following:**

- **single molecules**
- **extended solids (including metal organic frameworks)**
- **materials research**
- **fate of nanoparticles in the environment**
- **device properties**
- **engineering processes**
- **biological properties (e.g., toxicity, in-vivo or in-vitro cell studies)**
- **drug delivery**
- **selection or genetic engineering of enzymes**

## Recent Awards Made by MSN

- Research [NSF award database](#) with the Program Element Code 6885
- Research hight  
<https://www.nsf.gov/mps/che/Highlights/HighlightWebpages/highlights.jsp>

## Inquiries about Potential Proposal Submission to MSN

- Email/copy your inquiries to Suk-Wah Tam-Chang ([stamchan@nsf.gov](mailto:stamchan@nsf.gov)), Program Lead (Note: the program directors in the MSN program in FY24 are not the same as those in FY23)
- In your inquiry, please provide a white paper (2-3 pages) that
  - states clearly the project goal(s), the fundamental chemistry questions/challenges to be addressed, and the hypotheses to be tested
  - includes a concise description of the experimental/computational approach
  - describes briefly the broader impacts
  - provides an estimated total budget