

# ASBMB-RCN Workshop: Assessment of Students' Reasoning with Core Concepts and Visualizations in Biochemistry and Molecular Biology

Marymount Manhattan College  
Saturday, January 12, 2013, 9:00 AM – 5:00 PM

## Workshop Team:

- Hal White, Co-PI on ASBMB-RCN grant, Director, HHMI Undergraduate Program, Department of Chemistry and Biochemistry, University of Delaware, Newark
- Brian White, Member of the BioQuest Consortium, Professor of Biology, University of Massachusetts- Boston
- Ann Aguanno, Associate Professor of Biology, ASBMB Undergraduate Affiliate Network Committee NE Regional Director, Marymount Manhattan College

## Preliminary Meeting Agenda:

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| 9:00 - 9:30 am   | Arrive and check-in  |
| 9:30 – 9:45 am   | Introduction and overview of the ASBMB RCN Grant – <i>Hal White</i>  |
| 9:45 – 10: 45 am | Keynote: “Simulations for Teaching Molecular Biology: Uses and Evaluation” – <i>Brian White</i>  |
| 10:45 am – Noon  | Workshop I – Group information; Introduction, training and practice on validation procedures using sample questions with a range of typical student responses provided – <i>facilitated by Hal White</i>   |
| 12:00 – 12:45 pm | Lunch (provided)   |
| 12:45 – 2:00 pm  | Workshop II and reporting out in small groups. Share 2-3 questions plus answers of your own that should be focused on assessing (revealing) students' difficulties with ways of reasoning and visualizing of biochemistry concepts - <i>facilitated by Hal White</i> |
| 2:30 – 2:45 pm   | Coffee and tea break   |
| 2:45 – 4:00 pm   | Workshop III – In a “shredding” exercise, small groups make the questions from another group even better for presentation – <i>facilitated by Hal White and Brian White</i>  |
| 4:00 – 4:40 pm   | Gallery walk, final report out and discussion – <i>facilitated by Hal White and Brian White</i>  |
| 4:40 – 5:00 pm   | Planning for the future and wrap-up; Goals; Networking; Assignments; Deadlines; Meeting assessment   |
| 5:00 pm          | Workshop concludes. Participants may continue discussion over dinner   |
| 6:00 pm          | No-host dinner   |