

Dear State Directors,

The Milwaukee School of Engineering (MSOE) Center for BioMolecular Modeling (CBM) is pleased to be working with Science Olympiad this year to offer the **2012 Protein Modeling Event**. This event is comprised of **3 Parts: (1) a pre-build model, (2) an onsite build and (3) an onsite exam**.

Through funding from a Howard Hughes Medical Institute pre-college grant, National Institutes of Health-National Center for Research Resources-Science Education Partnership award and sponsorship from 3D Molecular Designs, **MSOE will provide all onsite build materials and tests/keys for Parts 2&3 of this event for the regional, state and national level competitions** (not Invitational) **at no cost to the tournament directors**.

Part 1 (Pre-build): Teams may directly purchase a prebuild kit from 3D Molecular Designs or use other materials for Part 1. If a team wishes to purchase a kit from 3D Molecular Designs, you may do so through the following website:

<http://www.3dmoleculardesigns.com/scienceolympiad.asp>

Part 2 (Onsite Build): We will provide tournament directors with the following onsite build materials:

- Appropriate length mini-toober (foam-covered wire) for the onsite build
- Blue and red end caps (used to indicate the N- and C-termini of the protein modeled)
- Sidechains for the onsite build
- Metal clips for sidechain attachment to the toober
- Plastic crosslinkers (used for stabilizing the model)

For each tournament, the onsite build materials will include one copy of a physical model of both the pre-build and onsite build proteins for use by the event supervisor to aid in scoring the student-constructed models.

The CBM will also provide all rubrics (for both pre-build and onsite build), guides to these rubrics and the online visualization programs needed for the onsite build. The visualization program can be installed on computers used for the competition, or can be accessed through an online website. Directions for both options will be included on the CD.

Part 3 (Exam) - The CBM will also provide exams and answer key for the onsite exam portion of the competition. Digital copies of these materials will be sent on a CD with the onsite build materials and the physical models.

Request Materials Form

If you are interested in obtaining these free materials from the CBM, **please complete the form at our website** <http://cbm.msoe.edu/forms/form.php>. To allow ample time to package and ship the materials, **please complete the online form now for known tournaments OR a minimum of two weeks in advance of your first tournament date**. We may not be able to fulfill requests made less than two weeks prior to a tournament; rush orders may incur expedited shipping charges.

This form asks you to provide the following information:

- Name and contact information for the state director (to be used if we have questions)
- Name and contact information for the person requesting the materials
- Shipping address for materials for the regional and state competitions (we will ship materials for each tournament separately to the appropriately designated individual)
- Dates of tournaments
- Date materials are needed by if earlier than one week prior to the tournament date

Please note that you have the option of obtaining your own onsite build materials. If you wish to receive **ONLY** the rubrics, exams and guides to rubrics, (no onsite build materials) please contact me directly (see contact information below) to request that **only** the CD is sent to you.

The CBM Science Olympiad website has been updated to reflect information pertinent to the theme for the 2012 Protein Modeling event. If you receive inquiries about the event from your **coaches**, please direct them to our website <http://cbm.msoe.edu/stupro/so/index.html>. Our website also has several resources for **event supervisors** at <http://cbm.msoe.edu/stupro/so/EventSupervisorResources.html>

Thank you for taking the time to provide us with this information. If you have any questions, please do not hesitate to contact me.

Sincerely,
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