# 2011 NEWEA Undergraduate Student Paper Competition

## Rules of the Competition

#### TOPIC:

Papers dealing with water pollution control, water quality problems, water-related concerns, hazardous waste, or related areas are invited. Examples include:

- research findings, including literature reviews, laboratory or field studies, or mathematical modeling studies
- a position paper presenting an editorial opinion about a water/wastewater topic, backed with appropriately cited facts
- papers describing community service or international development activities related to water resources
- a preliminary engineering design report describing a design project, including a description of the problem, development of the basis of design, and selection of the recommended solution, with appropriate figures.

#### **FORMAT:**

The paper submitted shall be limited to ten total typed pages of less than 5000 words, including an abstract of less than 350 words. Tables and figures may be included within the total page limitation (references not be counted in total pages). Use 12 pt font and line spacing of 1.5. The paper should generally include the following, although not all may be applicable to a given topic:

- 1. A descriptive title
- 2. Author's full name, department and university, address, phone number and email
- 3. An abstract
- 4. An introduction, which should include citations of published related work to assess previous research and identify the gaps in knowledge, as well as a statement of the objectives of the work
- 5. Sections on methodology, results, discussion and conclusions
- 6. An acknowledgement section following the conclusions, which may include any credits for funding or for assistance in the study. Faculty advisors cannot be listed as co-authors. However, they may act in an advisory capacity, and should be listed in an acknowledgement.
- 7. A list of references, alphabetized by the last name of the first author cited. Students are encouraged to use Water Environment Research reference formatting guidelines, which can be found at the following website: http://www.wef.org/ScienceTechnologyResources/Publications/WER/.

### SUBMISSION:

Please submit your paper electronically as either a Word document or a .pdf file to Christina Stauber at <a href="mailto:close-right-stauber-electronically-as-either-a-word-document-or-a-pdf-file-to-christina-stauber-electronically-as-either-a-word-document-or-a-pdf-file-to-christina-stauber-electronically-as-either-a-word-document-or-a-pdf-file-to-christina-stauber-electronically-as-either-a-word-document-or-a-pdf-file-to-christina-stauber-electronically-as-either-a-word-document-or-a-pdf-file-to-christina-stauber-electronically-as-either-a-word-document-or-a-pdf-file-to-christina-stauber-electronically-as-either-a-word-document-or-a-pdf-file-to-christina-stauber-electronically-as-either-a-word-electronically-as-either-a-word-electronically-as-either-electronically-as-either-electronically-as-either-electronically-as-either-electronically-as-either-electronically-as-either-electronically-as-either-electronically-as-either-electronically-as-either-electronically-as-either-electronically-as-either-electronically-as-either-electronical-electron

## **ORAL PRESENTATION:**

Six students will be chosen from the submissions to give a 20-minute presentation of their paper at the competition to be held at Northeastern University in Boston on April 23<sup>rd</sup> 2011, from 1:00 to 5:00, in the Egan Engineering/Science Research

Center, room 440. A projector and laptop will be provided for PowerPoint presentations. Winners will be announced at the end of the competition that day.

### **POSTER PRESENTATION:**

Six students will also be chosen from the submissions to give a poster presentation of their research during the competition. Posters should be 36" x 48", landscape or portrait.

## SELECTION CRITERIA:

The NEWEA Student Activities Committee will review the papers and select one winner. Selection will be based on:

Originality of Work -	20%
Technical Content -	20%
Completeness of Work -	20%
Clarity of Paper -	20%
Oral Presentation -	<u>20%</u>
	100%

#### PRIZE:

The winner of the competition will receive a \$500 prize plus a travel stipend of up to an additional \$1,000 to attend WEFTEC 2011 in Los Angeles to present the paper in a poster session. The winning paper will also be published in the New England Water Environment Association Journal. The winning paper is also eligible to compete in the national Water Environment Student Paper Competition. Winning participant shall be responsible to submit their paper to WEF.

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