The Michigan Technological University Center for Water & Society (MTCWS) Advisory Committee (AC) met October 14, 2013 at 9:00 am in Dow 633. The purpose of this meeting was to review the operations of CWS for the new members of the Advisory Committee, and discuss this year’s goals for CWS.

**Committee Members Present:**
- Noel Urban, Director
- Daisuke Minakata, Civil & Environmental Eng.
- Rupali Datta – Bio sciences
- Rod Chimner - SFRES
- Joan Chadde – Western UP Center for Science, Mathematics & Environmental Education
- Colin Brooks – MTRI
- Jason Gulley – GMES
- Emma Norman - SS
- Carol Asiala, CWS administrative assistant

**Attachments:** Meeting Agenda & presentation

### 1. CWS Overview

#### a. Outreach
- i. Green films
- ii. Chassell Strawberry Festival excursions on the R/V Agassiz
- iii. Water Festival for middle school

#### b. Education
- i. World Water Day
- ii. CWS Colloquium
- iii. Graduate Certificate
- iv. CWS-sponsored Seminars
- v. Interdisciplinary graduate degree programs

#### c. Research
- i. Proposal submission
- ii. Student travel and research grants
- iii. Cost share for equipment grants
- iv. Proposal assistance
d. **CWS Accomplishments:**
   i. CWS has moved to become affiliated under the GLRC research institute
   ii. SFHI Water-related hires (Daisuke Minakata, CEE and Pengfei Xue, CEE)

e. **CWS Advisory Committee Structure**
   i. **Advisory Committee**
      - Noel Urban, Director
      - Daisuke Minakata, CEE
      - Rupali Datta – BIO
      - Rod Chimner - SFRES
      - Joan Chadde – Western UP Center for Sci., Math & Env.l Education
      - Colin Brooks – MTRI
      - Jason Gulley – GMES
      - Emma Norman – SS
      - Sarah Green – Chemistry
      - Craig Waddell – Humanities
      - TBD – School of Business & Economics
      - TBD – Visual & Performing Arts
      - Carol Asiala, CWS administrative assistant
   ii. Research & Education Committee: N. Urban, J. Gulley, and D. Minakata
   iii. Seminar & Symposia Committee: N. Urban, J. Chadde, E. Norman, R. Chimner

2. **Goals for 2013-14**
   a. **Outreach**
      Continue with support for Strawberry Festival, K-12 Water Festivals, Green Films
   b. **Education**
      i. Colloquium will be run by Judith Perlinger this spring as a component of her new NSF research project, “CNH: Managing Impacts of Global Transport of Atmosphere-surface Exchangeable Pollutants in the Context of Global Change”. The goal is to offer the course online so that students from the partnering project institutions can participate in the course.
      ii. CWS supported seminars include Jon Cole (DEL), Norman Yan (BS), Tom Power(SS), and the World Water Day speaker to be determined
      iii. Graduate Certificate – more students need to be made aware of the certificate, and encouraged to work towards it.
         i. Make sure each dept includes information about the certificate in their grad student orientations
         ii. Make sure grad curriculum committees and grad advisors in each dept are aware of certificate
         iii. Post flyers on grad student bulletin boards
      iv. Interdisciplinary degree programs: CWS could contribute to a component of the new Earth System Sciences and the Ecology degree programs currently in development.
   c. **Research**
      i. Grad support for travel and research grants – methods for limiting the number of grants awarded will need to be put in place for this year because of smaller budget.
Policy changes put in place:

- limit 1 travel and 1 research award to MS students and undergrads, 2 travel and 2 research awards for PhD students
- require students to return back to CWS by (1) presenting a poster at World Water Day, (2) assisting with World Water Day preparations, or (3) assisting in CWS-sponsored outreach activities at Michigan Tech.
- travel grant applications must be submitted at least 1 week in advance of planned travel.
- The committee will limit number of grants awarded per semester so funds are not expended before spring conferences

ii. There is no budget for equipment cost share this year

iii. What is the best method for CWS assistance with large research proposals?
   - Carol’s Time
   - Listing RFP’s in newsletter
   - Let membership know that Carol’s help is available along with assistance from Peter Larson and Jodi Lehman in the VPR Office.

b. Ideas for fostering more CWS collaboration
   i. Host more events where the CWS members can meet informally to discuss research interests
   ii. GLRC is planning a brown bag lunch with a facilitated discussion. Discussed possibility of expanding this function to include GLRC and CWS members.
   iii. Discussed idea of a CWS facebook page – will look into this and get more ideas on what its focus should be. Will look into using a student intern to work on this.
What is CWS? What have we done for Outreach?

<table>
<thead>
<tr>
<th>2011-12</th>
<th>2012-2013</th>
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</thead>
<tbody>
<tr>
<td>Green Films</td>
<td>Green Films</td>
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<tr>
<td>7th Annual Scientific Excursions for the Public at Chassell Strawberry Festival</td>
<td>8th Annual Scientific Excursions for Public at Chassell Strawberry Festival</td>
</tr>
<tr>
<td>Great Lakes Watershed Investigations Teachers Institute</td>
<td>Great Lakes Investigations Teachers Institute</td>
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<tr>
<td>GLRC Education Strategic Planning Session</td>
<td>Water Festival</td>
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</table>
What is CWS? What have we done for education?

<table>
<thead>
<tr>
<th>2011-12</th>
<th>2012-2013</th>
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</thead>
<tbody>
<tr>
<td>World Water Day</td>
<td>World Water Day</td>
</tr>
<tr>
<td>CWS Colloquium – Human impacts on water (12 students, 5 departments, 10 faculty)</td>
<td>CWS Colloquium – Human Impacts on Water (3 students, 2 departments, 8 faculty)</td>
</tr>
<tr>
<td>Graduate Certificate in Sustainable Water Resource Systems – 4 to date</td>
<td>Graduate Certificate - # Awarded?</td>
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<tr>
<td>Seminars (GLRC – 4, CEE - 2, BS – 1, SFRES – 1)</td>
<td>Seminars (CEE – 2, BS – 1, SS – 1, GMES – 1)</td>
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<tr>
<td></td>
<td>Aquatic Sciences Grad Degree Program discussed</td>
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What is CWS? What have we done for research?

<table>
<thead>
<tr>
<th>2011-12</th>
<th>2012-2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 proposals submitted, 8 awarded ($0.6M), 25 projects, ~$1.5M research expenditures;</td>
<td>15 proposals submitted, 3 awarded ($1.9M), 22 projects,</td>
</tr>
<tr>
<td>Student Awards (7 poster, 5 travel, 8 research);</td>
<td>Student Awards (5 poster, 16 travel, 8 research);</td>
</tr>
<tr>
<td>Matching funds</td>
<td>Matching funds</td>
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<tr>
<td>C2E2 - $1000</td>
<td>C2E2 - $2,500</td>
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<tr>
<td>REF2011 - $3,500</td>
<td>REF2011 - $2,749</td>
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<tr>
<td>REF2012 - $6,955</td>
<td>REF2012 – 7,723</td>
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<tr>
<td>Proposal assistance - GLRI</td>
<td>Proposal assistance ($690)</td>
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</table>
What is CWS? What have we done?

- Voted to affiliate CWS within GLRC Institute

- SFHI Water-related hires
  - Daisuke Minakata - CEE
  - Pengfei Xue - CEE
Who are we this year?

- Advisory committee: Datta, Green, Minakata, Gulley, Brooks, (SBE?), Chimner, Norman, (VPA?), Chadde
- Seminars & Symposia subcommittee: Joan, Rod, Emma, Noel
  - Plan WWD
  - Evaluate/approve requests for seminar support
- Education & Research subcommittee: Jason, Daisuke, Noel
  - Evaluate research grant proposals
  - Plan Colloquium
  - Evaluate new degree programs
What do we want to do/be this year?

Outreach – Joan’s update

Education:

Colloquium – Judith Perlinger
Seminars – Series?
  - Jon Cole (DEL)
  - Norman Yan (BS)
  - Tom Power (SS)
Graduate Certificate – tell students
Graduate Degree – Earth System Sciences – Rod?
What do we want to do this year?

- Research
  - Graduate student support
  - vs.
  - Faculty research support?
  - How can CWS best foster/support large research proposal efforts?
<table>
<thead>
<tr>
<th>Category</th>
<th>FY12</th>
<th>FY13</th>
<th>FY14</th>
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<td>New Funding</td>
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<td>$2M</td>
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Opportunities/Threats/Challenges

- **GLRC** – how can CWS & GLRC best pool resources, avoid duplication, and enhance water research at MTU? What should be nature of interaction?

- **Colloquium** – opportunity for multi-institutional course to enhance visibility, benefit to our students

- **Seminar series** – boost CWS/MTU visibility, great learning opportunity for faculty & students

- **Increase visibility**
  - Host conferences
  - Attend conferences, meetings
  - Publicity
## Budget: historical

<table>
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<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
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<td>Research support</td>
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<td>$5,950</td>
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Ideas/comments

- Facebook page – student intern – Noel & Carol initiate
- Student awards: (e-mail to students, web page – Carol)
  - Limit per degree
  - Encourage new applicants
  - Return to CWS thru outreach, WWD, presentation at MTU
- Grad certificate:
  - Notice to adv.comm. at start of fall for orientation (Noel, Carol)
  - Flyers on bulletin boards – Carol prepare
- Foster identity, interaction
  - Brown bag lunches – Emma will initiate proposal
- Facilitate proposals
  - Keep Carol available
  - Publicize options for help – newsletter, e-mail to faculty