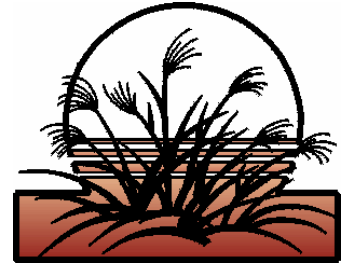




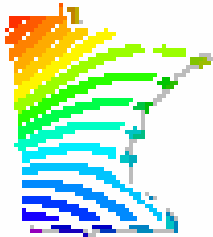
**NEWSLETTER
TWIN CITIES CHAPTER
AMERICAN METEOROLOGICAL
SOCIETY
November, 2003 Vol. 25 No. 3**



The November meeting of the Twin Cities Chapter of the AMS will be at 7 PM Thursday, November 20th, at the National Weather Service Office in Chanhassen. Specific directions to the meeting can be found on page 3. AMS chapter members, interested acquaintances and potential members are invited to attend.

Featured Speaker: James Husaby

*Improvement of Flood Forecasting in the Wapsipinicon River Basin,
Iowa, Using FLDWAV, an Empirical Flow Routing Model*



The Wapsipinicon River Basin is an area where current lumped parameter models have performed poorly in the past. The failure of the lumped parameter model to adequately predict river levels on the Wapsipinicon River was the basis for this study. The purpose of this study was to produce a more accurate river flood forecast by developing and testing the resolution of lumped inputs necessary to simulate a river profile. This was done with a state of the art one-dimensional unsteady flow routing model for the Wapsipinicon River reach between Anamosa, Iowa and its confluence with the Mississippi River near Camanche, Iowa. Significant hydro-geological changes occur from upstream to downstream on this sub-watershed, making lumped parameter models difficult to calibrate over the flow spectrum. The FLDWAV routing model, with spatial variation explicitly accounted for, has the potential to improve the forecast simulation of streamflow hydrographs in this area. The calibrated model shows promise in achieving this objective. Improvements of river forecasting on the Wapsipinicon River Basin include improved spatial forecasting of the river basin, with nine stage forecast forecasts now available (versus two from the current operational model), and first generation Manning “n” values for the entire reach in the Wapsipinicon River basin study area.

James Husaby is employed by the National Weather Service as a Hydrologist at the North Central River Forecast Center in Chanhassen. He spent 5 years in the United State Navy as a Sonar Technician aboard submarines. With the money from the GI Bill, he went to school after he left the military.

He began his training as a hydrologist as a student volunteer while working on a B.S. in Earth Science at Minnesota State University, Mankato. While still working on a B.S., he was offered a position in the Student Career Educational Program (SCEP). He completed a B.S in 2000 and continued in this program while pursuing a M.S. degree in Geography at Mankato.

He is married with two children. His family includes his wife of 13 years, Laurie, and their two sons, Josh (12) and Nick (9).

Comments from our Chapter President Dean Braatz



Have you sent in your membership yet for the 2003-2004 season? If not please do so. Dues remain at \$12 for members and \$6 for student members. Use the sheet at the end of the Newsletter to find the membership form that can be mailed along with your check to Seth Binau. Or turn your check in at one of the monthly meetings to one of the officers. The officers for 2003-2004 thank everyone for their continued support to the Twin Cities AMS Chapter.

Our second monthly meeting at St Thomas University was very informative. Bob Johnson's presentation on the Black Sea being isolated as a giant lake for most of the last million years occasionally gets reconnected to the Mediterranean Sea through minimal changes in the glacial ice volume. Bob had a topic that appealed to our membership and generated interest.

Our speaker for this month, on the 20th, is Jim Husaby, a hydrologist at the NWS's NCRFC in Chanhassen. This is the second meeting in Chanhassen this season as Jim will discuss the research he accomplished on a flood routing procedure for his Masters Degree at MSU in Mankato. Upcoming meetings that are scheduled for the 2003-2004 season include:

December 11– Karl Spring, CH 29, and Janie Peterson, CH 9

January 15– To Be Announced

February 19– Dale Branch, NWS ATCC

March 20– Craig Edwards and Seth Binau, NWSFC

April 15– Doug Dokken, St Thomas University

May 20– Eve Iverson, Cargill

Let's do all we can to keep our chapter strong. By continuing your membership, this is very possible. Become a member for 2003-2004 and if you can arrange it, try to attend a few the meetings. It's a fun time to mingle with other weather nuts. Always keep on the lookout for others who might be interested in our chapter. So ask peers and friends to join you when you attend the meetings. I look forward to seeing you at the next meeting. Please e-mail me or call me for any information or to pass on suggestions for meeting topics. My e-mail is: dtbraatz1@msn.com and my telephone is 952-925-9186.

The new officers for 2003-2004 are:

President – Dean Braatz

Sec-Treasurer – Seth Binau

Vice President – Doug Dokken

Newsletter – Kurt Scholz



Editor's notes – Kurt Scholz

I received the following information from the AMS Local Chapters Affair Committee the: “Each year the AMS recognizes two local chapters (one regular chapter and one student chapter) that have demonstrated exceptional innovation and activity over the past year. All chapters, regardless of membership size and availability of external resources, are encouraged to compete as efforts are made to balance these considerations with the scope of the chapter’s accomplishments. Applications are available on the AMS Web site. The deadline for submissions is May 1”

I think our chapter deserves consideration for this award. Our meetings have featured outstanding speakers, extremely interesting tours and some interesting and lively discussions. I would like to collect information on some of the activities in the areas below so that we can be considered for the local chapter award. Please send me anything you have.

- Tour Meteorological Facilities
- Science Fair Support/Judging/Awards
- Fund Scholarships/Awards
- Host a Regional Conference
- Career Counseling/Advising
- Science Advisor (support for K-12 students/teachers)
- Participation in AMS Education Programs



AMS on the WWW

The address for the Twin Cities Chapter of the AMS is: http://byte.stthomas.edu/www/math_http/weather/tcametsoc.html. Please send any comments, suggestions, changes of address, misspellings, etc. to Kurt Scholz, k9scholz@stthomas.edu.

Reminder: The November meeting will be held at 7pm, on Thursday November 20th, at the NWS, Chanhassen.

Directions

Take Highway **494** to the exit for Minnesota **Highway 5** west in Eden Prairie. Travel west on highway 5 into Chanhassen. Turn **left** (south) at **Audubon Road**. Follow Audubon Road to **Lake Drive**, then turn **right** and follow Lake Drive to the NWS entrance, which will be on your left. The Nexrad radar tower will be visible as you approach the area. An alternative, if traffic is heavy and you want to avoid the Audubon turn off of highway 5, is to turn **left** at the light onto **Powers Boulevard**, and head south. You would then take the **first right** off of Powers Boulevard, onto **Park Road**, and follow it to Audubon Road, then turn **left** and head south to Lake Drive.

Last reminder to send in your dues if you haven't done so. Fill out the form below and mail it in with your annual Chapter dues.

Name _____ Daytime phone _____

Address _____

City _____ State _____ Zip code _____

E-mail address _____ If you prefer to be notified via e-mail when the newsletter is posted on our website, rather than having us mail you a paper copy of the newsletter, check here _____

Suggestion for an AMS meeting topic _____

Twin Cities Chapter AMS
c/o Kurt Scholz
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Arden Hills MN 55112-3644

