The Midwest Dynamical Systems Conference is being preceded by a satellite conference in honor of Dick McGehee's career contributions to dynamical systems.

**Link to Program:**

**Link to Conference Pictures:**

**Link to Doug Norton Saturday Banquet Poem: "RPM"**

**IMA Recordings of the 15 Satellite Conference talks and all Midwest/McGehee Talk Abstracts**

**Travel Reimbursement Forms**

**Midwest Speakers**

Aaron Brown, University of Chicago
Chris Jones, University of North Carolina
Richard McGehee, University of Minnesota Twin Cities
Katherine Meyer, University of Minnesota Twin Cities
Konstantin Mischaikow, Rutgers University
Alice Nadeau, University of Minnesota Twin Cities
Anca Radulescu, SUNY New Paltz
James Yorke, University of Maryland
Mary Lou Zeeman, Bowdoin College

McGehee Satellite Conference
Speakers
Anna Barry, University of Auckland
Richard Buckalew, University of Minnesota Duluth
Mohamed Elbialy, University of Toledo
Marshall Hampton, University of Minnesota Duluth
Kaitlin Hill, University of Minnesota Twin Cities
Yannis Kevrekidis, Johns Hopkins University
Cordelia McGehee, Mayo Clinic Rochester MN
Richard Moeckel, University of Minnesota Twin Cities
Hinke Osinga, University of Auckland
Bruce Peckham, University of Minnesota Duluth
Gareth Roberts, Holy Cross
Evelyn Sander, George Mason University
Mary Silber, University of Chicago
Cameron Thieme, University of Minnesota Twin Cities
Esther Widiasih, University of Hawaii West O'ahu

Saturday Poster
Session
<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Montie Avery</td>
<td>University of Minnesota Twin Cities</td>
<td>Growing Stripes, With and Without Wrinkles</td>
</tr>
<tr>
<td>James Broda</td>
<td>Bowdoin College</td>
<td>Stationary distributions and convergence rates for piecewise deterministic Markov processes</td>
</tr>
<tr>
<td>Harini Chandramouli</td>
<td>University of Minnesota Twin Cities</td>
<td>The Hyperbolic Restricted 3-Body Problem and Applications to Celestial Mechanics and Climate Mathematics</td>
</tr>
<tr>
<td>Ivan Chio</td>
<td>Indiana University-Purdue University Indianapolis</td>
<td>Lee-Yang zeros for the Cayley Tree and expanding maps of the circle</td>
</tr>
<tr>
<td>Ty Frazier</td>
<td>University of Minnesota Twin Cities</td>
<td>Do near triple collisions explain the prevalence of binary stars in globular clusters?</td>
</tr>
<tr>
<td>Hye Kyung Kim</td>
<td>University of Minnesota Twin Cities</td>
<td>A Hopf Bifurcation in a Dynamical Model for Red Coral Populations</td>
</tr>
<tr>
<td>Alice Nadeau</td>
<td>University of Minnesota Twin Cities</td>
<td>A new method of carbon isotope data analysis shows net inorganic carbon since 1980</td>
</tr>
<tr>
<td>Shannon Negaard-Paper</td>
<td>University of Minnesota Twin Cities</td>
<td>Dispersions: Tools for Systemizing Non-Smooth Dynamical Systems</td>
</tr>
<tr>
<td>Duong Nguyen</td>
<td>University of Houston</td>
<td>Quasistatic dynamical system in higher dimension</td>
</tr>
<tr>
<td>Sarah Pierro</td>
<td>University of Minnesota Duluth</td>
<td>Modeling Waves in Early Embryonic Drosophila Cells</td>
</tr>
<tr>
<td>Felipe Perez Pereira</td>
<td>University of Bristol</td>
<td>Dimension of measures with infinite entropy</td>
</tr>
<tr>
<td>Maria Sanchez and Sayandeep Biswas</td>
<td>University of Minnesota Twin Cities</td>
<td>Non-smooth bifurcation analysis on a perturbation of Welander's Model</td>
</tr>
<tr>
<td>Julie Sherman</td>
<td>University of Minnesota Twin Cities</td>
<td>Constraints on the Oceanic Carbon Sink Using Atmospheric Oxygen Data</td>
</tr>
<tr>
<td>Cameron Thieme</td>
<td>University of Minnesota Twin Cities</td>
<td>Filippov Systems and Dispersions</td>
</tr>
</tbody>
</table>
Jasper Weinburd, University of Minnesota Twin Cities  
Advection and Autocatalysis in Banded Vegetation Patterns
Kitty Yang, Northwestern University  
The mapping class group of a minimal subshift

If you would like to present a poster, email Bruce Peckham at midwestdynamics2018@gmail.com with your name, affiliation and poster title.

Congratulations to Dick
Please take a moment to send a congratulatory message for Dick. You are also welcome to send photos. Dick's students will compile a multimedia album of cards, emails, and photos, to be presented to him at the conference. You can:

1. mail a card to Alice Nadeau, 127 Vincent Hall, 206 Church Street SE, Minneapolis MN 55455
2. email a message to congrats2mcgehee@gmail.com
3. record a video message using this link. (password: dynamicalsystems)

Contact Kate Meyer with questions regarding the album at meye2098@umn.edu.

Other Information
Program
IMA Recordings of the 15 Satellite Conference talks and all Midwest/McGehee Talk Abstracts
Participant List (as of Oct. 30, 2018 - updated weekly)
Conference Banquet, honoring Dick McGehee, will be held Saturday night at Coffman Memorial Union, across Washington Street from Vincent Hall. We are asking attendees to contribute $20 toward the total cost. The Math Department will cover the balance. Contributions will be collected at the conference.
Past conferences and information about the e-mailing list

**Registration.** To register, please send an email to midwestdynamics2018@gmail.com with subject heading REGISTRATION, containing your name, your university or employer, your advisor's name if you are a student, and your arrival and departure days. There is some funding for junior participants and those without grants; please indicate in your email if you would like to request funding for travel and/or lodging. Include the amount requested, and remember that you must use a US air carrier if you request airfare reimbursement. Graduate students requesting hotel support are asked to share rooms. Requests for support received by September 1st will receive responses by September 10th. Requests received after that date will be handled on a rolling basis, subject to remaining availability of funds. If you are looking for a roommate, send an email to midwestdynamics2018@gmail.com with subject heading ROOMMATE. I will share a google file with only names and email addresses for only those seeking a roommate. It will be up to you to contact potential roommates.

**Hotels.** Reserve by Oct. 1, 2018 to obtain these discounted rates.

- Days Hotel on University 2407 University Ave SE Minneapolis, MN 55414
  - rate is $92/night + 13.14% tax
  - call the reservations line at (612) 623-3999 and mention the name of the conference to get the rate.

- Graduate Hotel Minneapolis 615 Washington Ave SE Minneapolis, MN 55414
  - rate is $138/night + 13.14% tax
  - Call 612-379-8888, Press 1 for Reservations and ask for the Midwest/McGehee Dynamical Systems Conference, OR [Click here](http://example.com).
Transportation. [Link to IMA web transportation page.]
Sublinks to parking map and campus map. Closest parking lots are the Washington Ave. Ramp, and the Weismann Museum Ramp. Both have a daily max charge of $12.

Speakers: By September 1, 2018, please send title, abstract and (optional) web homepage address to midwestdynamics2018@gmail.com with subject heading SPEAKER.

Organizers: Bruce Peckham, Rick Moeckel, Evelyn Sander, Jim Walsh and students of Dick McGehee

Sponsors: This event is funded by the National Science Foundation, the University of Minnesota College of Science and Engineering, the University of Minnesota School of Mathematics, and the University of Minnesota Institute for Mathematics and its Applications.