

Ecology & Evolution

Retreat Program

Stony Brook University

March 3rd, 2018

A quick look at the program:

| | | |
|-------|---------------------------------------|--------------------|
| 9:15 | Breakfast and Coffee | |
| 9:45 | Welcoming Remarks | |
| 9:50 | Talk 1 | Alyssa Liguori |
| 10:10 | Talk 2 | Jeroen Smaers |
| 10:30 | Talk 3 | Anusha Shankar |
| 10:50 | Coffee | |
| 11:20 | Talk 4 | Krishna Veeramah |
| 11:40 | Talk 5 | Michael Schrimpf |
| 12:00 | Talk 6 | Shyamalika Gopalan |
| 12:20 | Lunch and Exploring Port Jefferson | |
| 2:30 | Talk 7 | Heather Lynch |
| 2:50 | Talk 8 | Toni Lyn Morelli |
| 3:30 | Coffee | |
| 4:00 | Talk 9 | Evgeny Brud |
| 4:20 | Talk 10 | Bento Gonçalves |
| 4:40 | Talk 11 | Maria Rosa |
| 5:00 | Awards | |
| 5:30 | Entertainment | |
| 6:00 | Dinner | |
| 8:00 | Walk to Barito | |

Session 1 (9:50 - 10:50)

Chair: Dedi Yang

Multigenerational responses to pH in different populations of the copepod *Tigriopus californicus*

Alyssa Liguori

Tempo and pattern of avian brain size evolution

Jeroen Smaers

Activity has the largest effect on hummingbirds' 24-hour energy budget

Anusha Shankar

Session 2 (11:20 - 12:20)

Chair: Roy Nunez

Paleogenomics of the Migration Period

Krishna Veeramah

What's an Antarctic Shag? (And what do we know about them?)

Michael Schrimpf

Human population structure and recent demographic history in southwest Ethiopia

Shyamalika Gopalan

Lunch and Exploring (12:20-2:20)

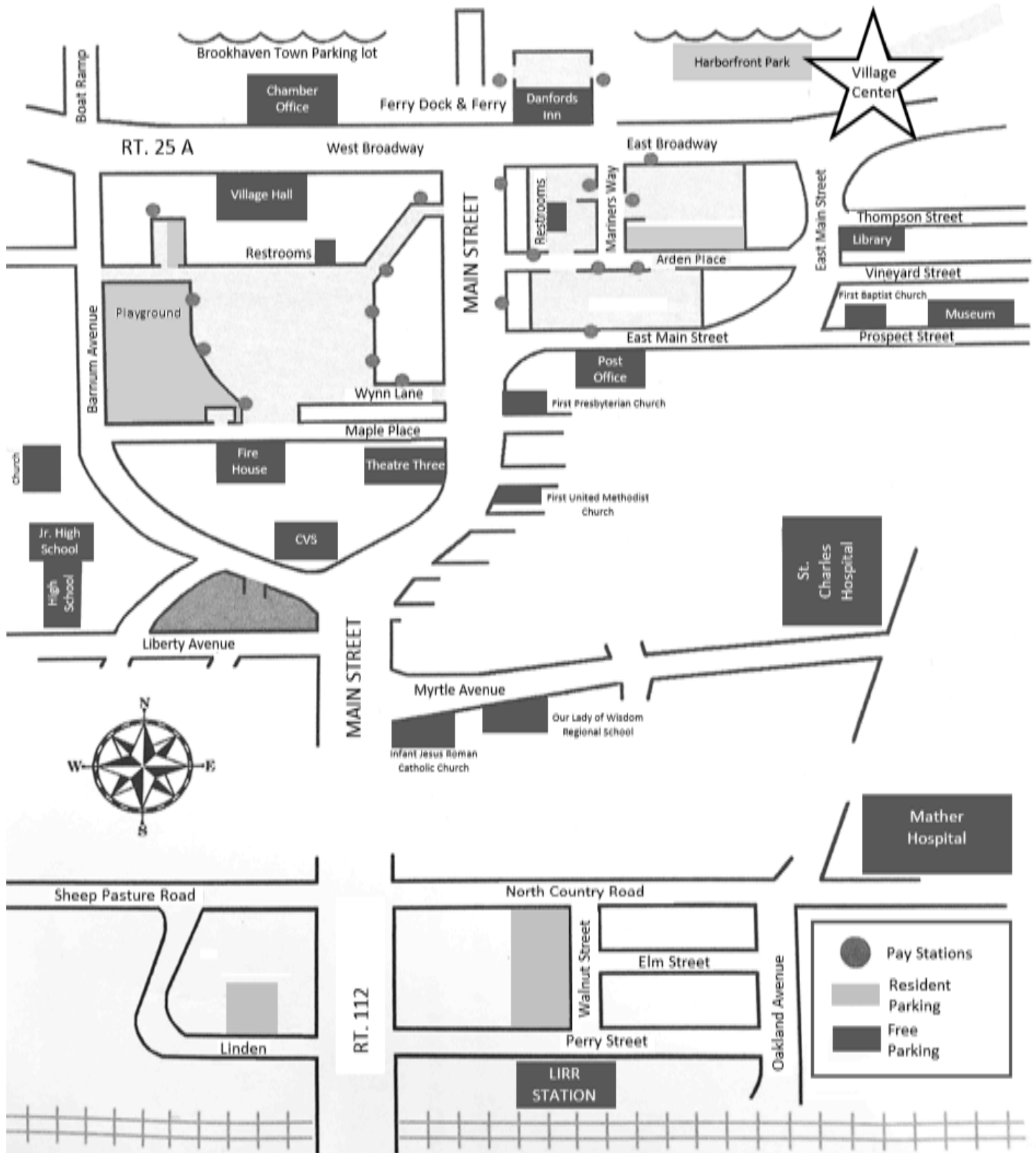
Skating on the Harbor:

1 p.m. to 2:20 p.m.

\$11 adult admission

\$5.50 skate rental

Port Jefferson Map



Session 3 (2:30 - 3:30)

Chair: Anna McPherran

Prediction is hard and other lessons learned from a data science competition

Heather Lynch

The Science of Resistance: Climate change refugia, landscape connectivity, and translational ecology

Toni Lyn Morelli

USGS Research Ecologist, DOI Northeast Climate Science Center

Adjunct Assistant Professor, Department of Environmental Conservation

University of Massachusetts Amherst

Alumna of Stony Brook Ecology & Evolution

Session 4 (4:00 – 4:40)

Chair: Kenneth Davidson

Meiosis and the evolution of karyotypes

Evgeny Brud

Autonomous pan-Antarctic pack-ice seal census using remote sensing and deep learning

Bento Gonçalves

Life in transition: Can feeding flexibility help marine bivalves in a changing environment?

Maria Rosa

Conservation Song

*We have the mountains and the forests and the rivers and the valleys
And the natural resources they contain.*

*We have the natural resources, but the theme of my discourse is
Just how long will those resources all remain?*

REFRAIN (Sing along!):

*If we study conservation, and practice conservation
There's no doubt that it will keep our planet strong!
It's my earnest observation that the entire population
Join the chorus of the conservation song!*

*We have to find the right solution to the problem of pollution
That is poisoning our water and our air.
And it's appropriate to mention that some littering prevention
Serves us better than the clean-up and repair.*

*It isn't terribly surprising that our temperatures are rising
As we drive our cars and burn that gasoline.
The climate won't become as heated if we only use what's needed,
And then search for energies that are more clean.*

*With population levels climbing, habitat keeps on declining
For the creatures of the land and sea.
When ecosystems need protecting and our habit need correcting,
Conservation can begin with you and me.*

Originally by Hy Zaret and Lou Singer
on the album "More Nature Songs",
part of the series: "Ballads for the Age of Science"
and performed by Marais and Miranda.

Lyrics adapted by Michael Schrimpf.

Thank you all for helping!

Accommodation Committee and Scheduling Committee

Melissa Cohen, Jessica Gurevitch

AV Committee

Roy Nunez, Dedi Yang

Food Preparation Committee

Jeroen Smaers, Allison Rugila, Paul Donat, Scott Grimmell, Alyssa Liguori

Food Shopping Committee

Scott Grimmell, Cassidy Freudenberg, Tom Kohlmann,
Josh Rest, Simra Zahid

Libation Committee

Dave Carlson

Entertainment Committee

Lisa Prowant, Elise Lauterbur

Cleanup Committee

Mihir Umarani, David Charifson, Ken Davidson, Anna McPherran

Program Committee

Kristjan Mets, Lisa Prowant, cover art by Emily Herstoff,
back cover photography by Anusha Shankar

Photography

Anusha Shankar

**everyone who submitted pictures to the slideshow, and
everyone else who helped!**



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