Monday, February 6, 2023:

- Registration table open – 8:00 am

- Welcome, Oxford/Somerset Room – 9:00-9:25 am
  - Alison Krepp, National Sea Grant Office
  - Remarks by Senator Susan Collins (pre-recorded) and Representative Chellie Pingree (in-person)
  - Dr. Amalia Harrington, Maine Sea Grant

- Morning sessions – 9:30-10:45 am
  - Cumberland Room: Evaluating American lobster stock dynamics under changes to life history & management regulations
    - Dr. Yong Chen, Stony Brook University
    - Dr. Cameron Hodgdon, Stony Brook University
  - Kennebec Room: Open discussion
  - Lincoln Room: Larval lobsters/early life history stages – Part 1: Influence of environmental change on early development of lobsters & maternal effects
    - Dr. Brittany Jellison, University of New Hampshire, & Dr. Jason Goldstein, Wells NERR – Introduction to the session
    - Dr. Benjamin Gutzler, Wells NERR – Investigating egg clutch size across the Gulf of Maine
    - Dr. Brittany Jellison, University of New Hampshire – The effect of multiple stressors on reproductive success, embryogenesis, and emerging larvae of the American lobster
    - Sarah Koshak*, Virginia Institute of Marine Science – The shifting bacterial community of the American lobster (Homarus americanus) during early life history stages
    - Alex Ascher*, University of Maine – Maternal size-effects on embryonic and larval lobster
    - Dr. Carolyn Tepolt, Woods Hole Oceanographic Institution – Variability in heat tolerance in Stage I lobster larvae among families and regions

- Break – 10:45-11:00 am

- Continue morning sessions 11:00-12:15 pm
  - Cumberland Room: Evaluating American lobster stock dynamics under changes to life history & management regulations – Continued
  - Kennebec Room: Open discussion
  - Lincoln Room: Larval lobsters/early life history stages – Part 2: Trophic interactions in the pelagic food web
    - Dr. Rick Wahle, University of Maine – Introduction to the session
    - Dr. Burton Shank, NOAA/NEFSC – Lobster larval and settlement dynamics: correlations and connections to basin-scale oceanographic processes
    - Joshua Carloni, New Hampshire Fish and Game – Diverging phenology of larvae and their potential zooplankton prey in a warming ocean
    - Maura Niemisto, Bigelow Laboratory for Ocean Sciences, & Brendan Kellogg*, BLOS/Southern Maine Community College – Depth wise associations of zooplankton with lobster larvae
    - Alex Ascher*, University of Maine – Lobster larval diet study: utilizing mixed methodologies
Evie Layland*, University of Maine – *Ontogeny of prey preference and functional response of larval lobster* (*Homarus americanus*)

- **Lunch – 12:15-1:15 pm, Connecticut/Rhode Island Room**

- **Afternoon sessions 1:15-2:45 pm**
  - Cumberland Room: Evaluating American lobster stock dynamics under changes to life history & management regulations – *Continued*
  - Kennebec Room: Open discussion
  - Lincoln Room: Larval lobsters/early life history stages – Part 3: Environmental drivers of behavior & distribution
    - Dr. Jason Goldstein & Dr. Benjamin Gutzler, Wells NERR – *Introduction to the session*
    - Dr. Steve Jury, Saint Joseph’s College of Maine – Behavioral thermoregulation of ovigerous American lobsters (*Homarus americanus*)
    - Dr. Jason Goldstein, Wells NERR – *Warming GoM waters and their impact on postlarval swimming activity*
    - Dr. Jesús Pineda, Woods Hole Oceanographic Institution – *Concentration and condition of American lobster postlarvae in convergences*
    - Dr. Eric Annis, Hood College – *Larval thermal tolerance and implications for distribution and settlement*
    - Caroline Benfer*, Hood College – *Broad-scale distribution of lobster larvae and potential prey in the Gulf of Maine and Georges Bank*

- **Break 2:45-3:00 pm**

- **Continue afternoon sessions 3:00-4:15 pm**
  - Cumberland Room: Evaluating American lobster stock dynamics under changes to life history & management regulations – *Continued*
  - Kennebec Room: Open discussion
  - Lincoln Room: Larval lobsters/early life history stages – Part 4: Monitoring, modeling, & forecasting
    - Dr. Damian Brady, University of Maine – *Introduction to the session*
    - Dr. Andrew Goode, University of Maine – *Climate effects on reproduction and larval distributions of the American lobster*
    - Kristyn Kleman, University of Maine – *The American Lobster Settlement Index (ALSI): cross border collaboration and forecasting*
    - Declan McCormick*, University of Rhode Island – *Early life history of American lobsters in coastal southern New England waters*
    - Everett Rzeszowski*, University of Maine – *Tracking exchange between offshore GoM regions via tagging*

- **Break/set-up 4:15-5:00 pm**

- **Poster/networking session – 5:00-7:00 pm, Connecticut/Rhode Island Room**

**Tuesday, February 7, 2023:**

- **Plenary – Lobster research in support of management objectives, Oxford/Somerset Room – 8:30-9:40 am**
  - Speakers:
    - Carl Wilson, Director, Bureau of Marine Science, Maine Department of Marine Resources
    - Jesica Waller, Director, Division of Biological Monitoring & Assessment, Maine Department of Marine Resources
Remarks by Senator Angus King (in-person) – 9:40-9:45 am

Break – 9:45-10:00 am

Morning sessions – 10:00-11:15 am
   o Cumberland Room: Evaluating American lobster stock dynamics under changes to life history & management regulations – Continued
   o Kennebec Room: Open discussion
   o Lincoln Room: Food web dynamics/range expanding species
      Presenters:
      - Dr. Marissa McMahan, Manomet, & Helen Cheng*, Northeastern University – Investigating the ecological impacts of range-expanding species to the American lobster fishery using collaborative surveys, fisher observations, and predator-prey experiments
      - Rebecca Peters, Maine Department of Marine Resources - “Who’s eating juvenile lobsters?”: An evaluation of lobster predation in the Gulf of Maine using stomach content analysis
      Additional panelists:
      - Dr. Conor McManus, Rhode Island Department of Environmental Management
      - Dr. Gabriela Bradt, New Hampshire Sea Grant
      - Dr. Jason Goldstein, Wells NERR
      - Dr. David Johnson, Virginia Institute of Marine Science

Continue morning sessions 11:15-12:30 pm
   o Cumberland Room: Evaluating American lobster stock dynamics under changes to life history & management regulations – Continued
   o Kennebec Room: Open discussion
   o Lincoln Room: Alternative baits in the lobster fishery
      Presenters – Alternative bait development and future visioning in the New England lobster fishery
      - Dr. Jynessa Dutka-Gianelli, Gloucester Marine Station and the University of Massachusetts Amherst
      - Bart DiFiore*, University of California, Santa Barbara
      - Rachael Hamilton*, University of Massachusetts Boston
      Additional panelists:
      - Dr. Steve Jury, Saint Joseph’s College of Maine
      - Dr. Gabriela Bradt, New Hampshire Sea Grant
      - Ann Molloy, Neptune’s Harvest
      - Dr. Marissa McMahan, Manomet

Lunch – 12:30-1:30 pm, Connecticut/Rhode Island Room
• Afternoon sessions 1:30-2:45 pm
  o Cumberland Room: Lobster Institute Updates
    ▪ Christina Cash, Lobster Institute, University of Maine – US-Canada Lobster Town Meeting Review
    ▪ Dr. Rick Wahle, Lobster Institute, University of Maine – New NSF-supported Arctic Impacts Initiative
  o Kennebec Room: Open discussion
  o Lincoln Room: Social-ecological coupling in the lobster industry
    ▪ Presenters:
      • Dr. Jonathan Grabowski, Northeastern University – Introduction to session and The American lobster fishery’s observations and perceptions of range-expanding species
      • Dr. Theresa Burnham, University of Maine – Building sentinel indicators of socioeconomic resilience in Maine’s American lobster fishery
      • Dr. Kanae Tokunaga, Gulf of Maine Research Institute, and Dr. Alexa Dayton, Maine Center for Coastal Fisheries – Economic diversity of Maine’s American lobster fishery
    ▪ Additional panelists:
      • Jennie Rheuban, Woods Hole Oceanographic Institution Sea Grant
      • Alison Krepp, NOAA/National Sea Grant Office
      • Joelle Kilchenmann*, University of Maine

• Continue afternoon sessions: 2:45-4:00 pm
  o Cumberland Room: ME DMR lobster monitoring programs
    ▪ Kathleen Reardon, Maine Department of Marine Resources – DMR Lobster Monitoring Programs (Sea Sampling and Ventless Trap Survey)
    ▪ Robert Russell, Maine Department of Marine Resources – DMR Settlement Survey
    ▪ Dr. Heather Glon, Maine Department of Marine Resources – DMR Lobster Research Lab & DMR Larval survey
    ▪ Rebecca Peters, Maine Department of Marine Resources – Maine-New Hampshire Inshore Trawl Survey
    ▪ Jessica Waller, Maine Department of Marine Resources – Division of Biological Monitoring and Assessment research initiatives and coordination
  o Kennebec Room: Open discussion
  o Lincoln Room: Lessons learned from southern New England
    ▪ Nancy Balcom, Connecticut Sea Grant, and Antoinette Clemetson, New York Sea Grant – Introduction to session
    ▪ Colleen Bouffard, Connecticut Department of Energy & Environmental Protection – Trends from Connecticut and the Long Island Sound
    ▪ Dr. Conor McManus, Rhode Island Department of Environmental Management – SNE lobster: population, commercial fishery, young-of-year statuses
    ▪ Kim McKown, New York State Department of Environmental Conservation (retired) – NYS and ASMFC updates
    ▪ Dr. Katherine Maltby, Gulf of Maine Research Institute – Exploring social resilience in the southern New England lobster fishery: lessons learnt and future opportunities

• Break – 4:00-4:15 pm

• Group debrief on next steps for the ALI, Oxford/Somerset Room – 4:15-5:00 pm
  o Dr. Amalia Harrington, Maine Sea Grant,
  o Dr. Gabriela Bradt, New Hampshire Sea Grant
  o Jennie Rheuban, Woods Hole Oceanographic Institution Sea Grant
List of poster titles and presenters:

1. *Assessing predator prey interactions and distributional patterns of larval Homarus americanus with zooplankton in the Gulf of Maine and Georges Bank stock area*, Caroline Benfer*, Hood College

2. *Communicating ALI research projects*, Simonne Dodge*, University of Miami

3. *Alternative bait development and future visioning in the New England lobster fishery*, Dr. Jynessa Dutka-Gianelli, Gloucester Marine Station and the University of Massachusetts Amherst

4. *Lobster bait project: current development of optimized carrageenan-based bait*, Dr. Jynessa Dutka-Gianelli, Gloucester Marine Station and the University of Massachusetts Amherst

5. *An analysis of seasonality in the Maine lobster fishery*, Emily Fitting*, University of Maine

6. *Updates to spatial dynamics of Maine lobster landings in a changing coastal system*, Jaeheon Kim*, University of Maine


8. *Lobster fishing and wellbeing: understanding social outcomes in Maine and Nova Scotia*, Tracy MacKeracher*, University of Maine and Dalhousie University


* Indicates student presenter