



**IFPRI**

International Fine Particle  
Research Institute

**41<sup>th</sup> Annual General Meeting**

**June 23-27, 2019**

**Hilton Burlington**

**Burlington, Vermont**

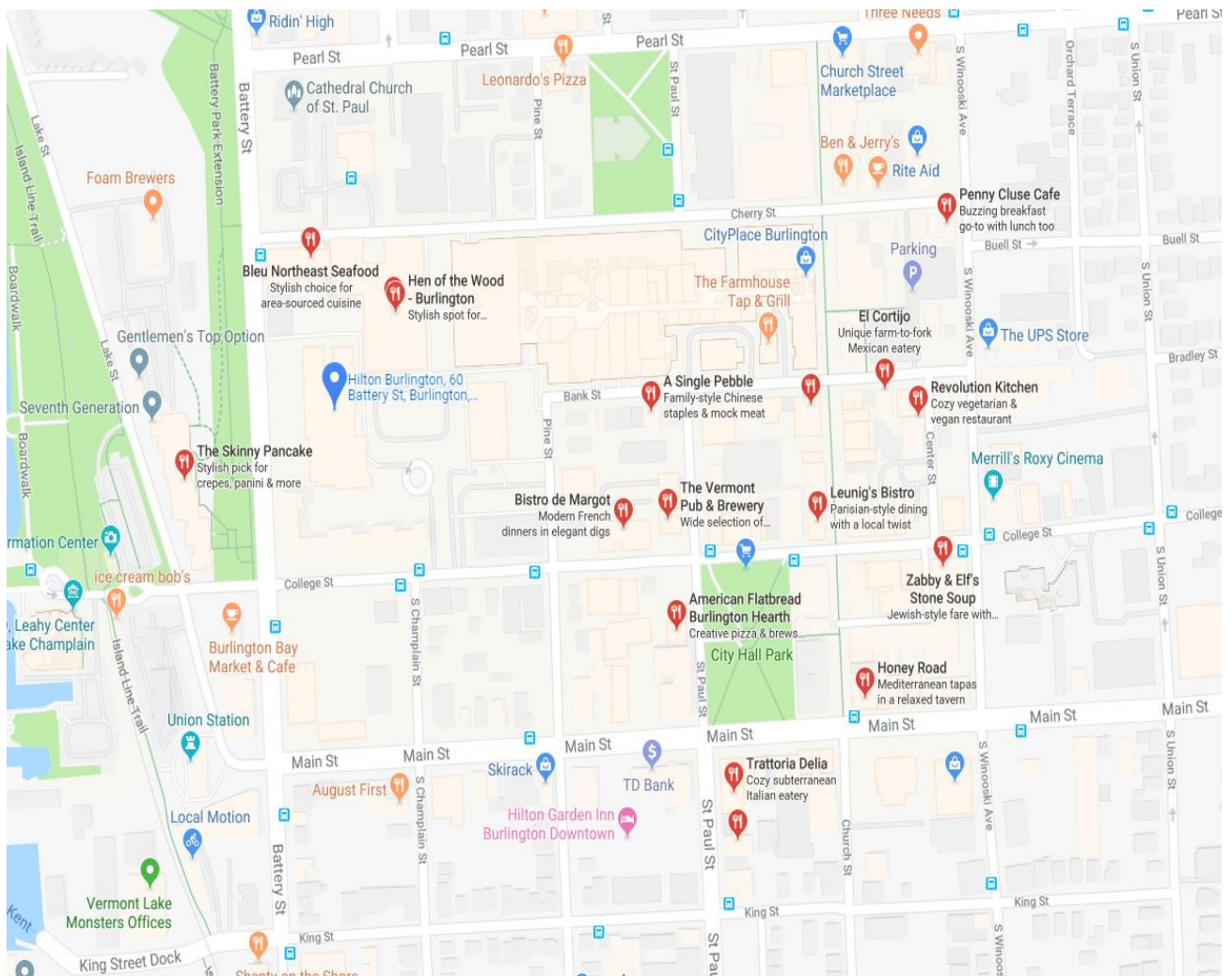
**Matt Maille Host**

**Keurig Dr Pepper**

# 41<sup>th</sup> AGM Notes and Directions

Unlike our previous AGMs in Philadelphia and Edinburgh I was able to find a combined Hotel and Meeting Venue, Burlington Hilton on Lake Champlain. We will be close to the Burlington downtown with a good variety of restaurants within walking distance. We will be using a bus only once, for the Combined Welcoming Happy Hour, Sporting Event, Beer Tasting and Dinner on Sunday June 23, 2019. We will be going to Shelburne Farms which was the home of William Seward and Lila Vanderbilt Webb (granddaughter of Cornelius Vanderbilt). I have included maps of downtown Burlington, a map for getting to Shelburne Farms, in case you will be driving and a walking map to the Spirit of Ethan Allen (our banquet site on Lake Champlain).

- 1) Downtown Burlington and the Burlington Hilton Hotel  
Burlington Hilton  
60 Battery Street  
Burlington, VT 05401  
802-658-6500

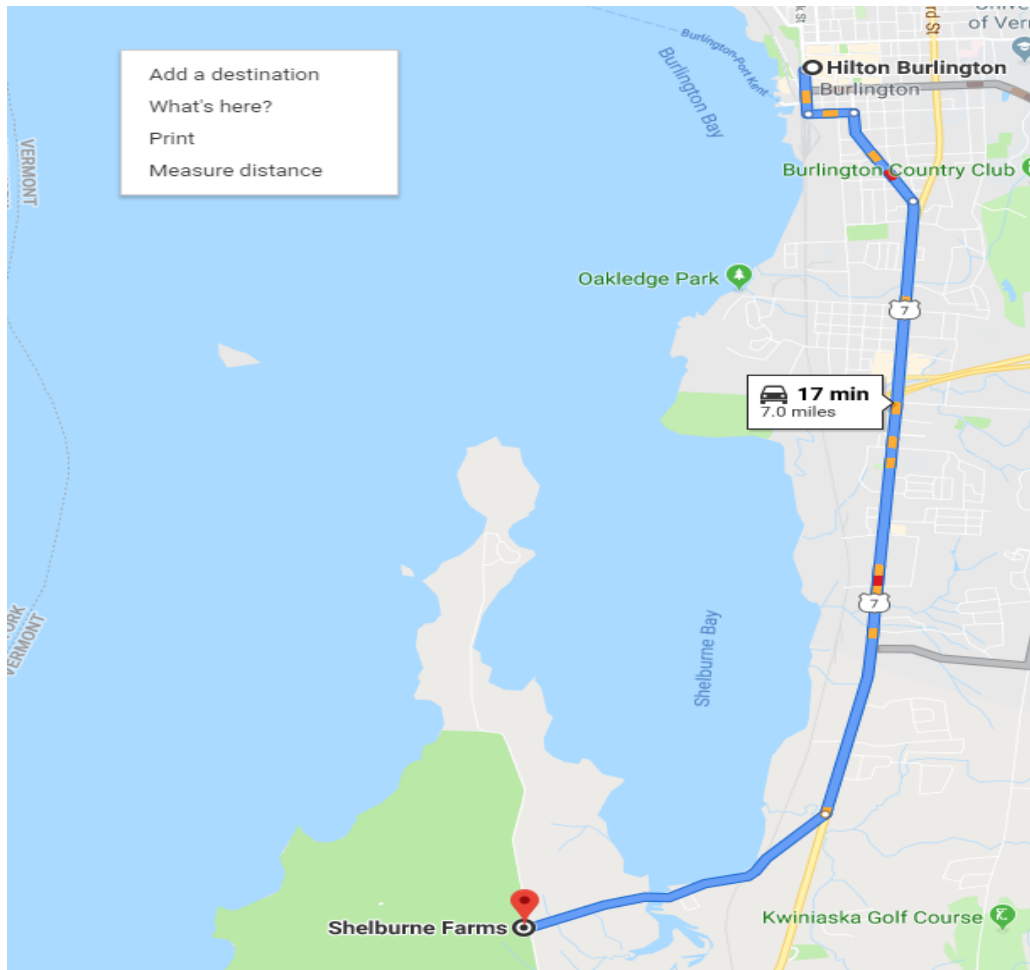


2) Sunday June 23<sup>rd</sup> Welcome Happy Hour at Shelburne Farms

Shelburne Farms

1611 Harbor Road

Shelburne, VT 05482



802-985-8686

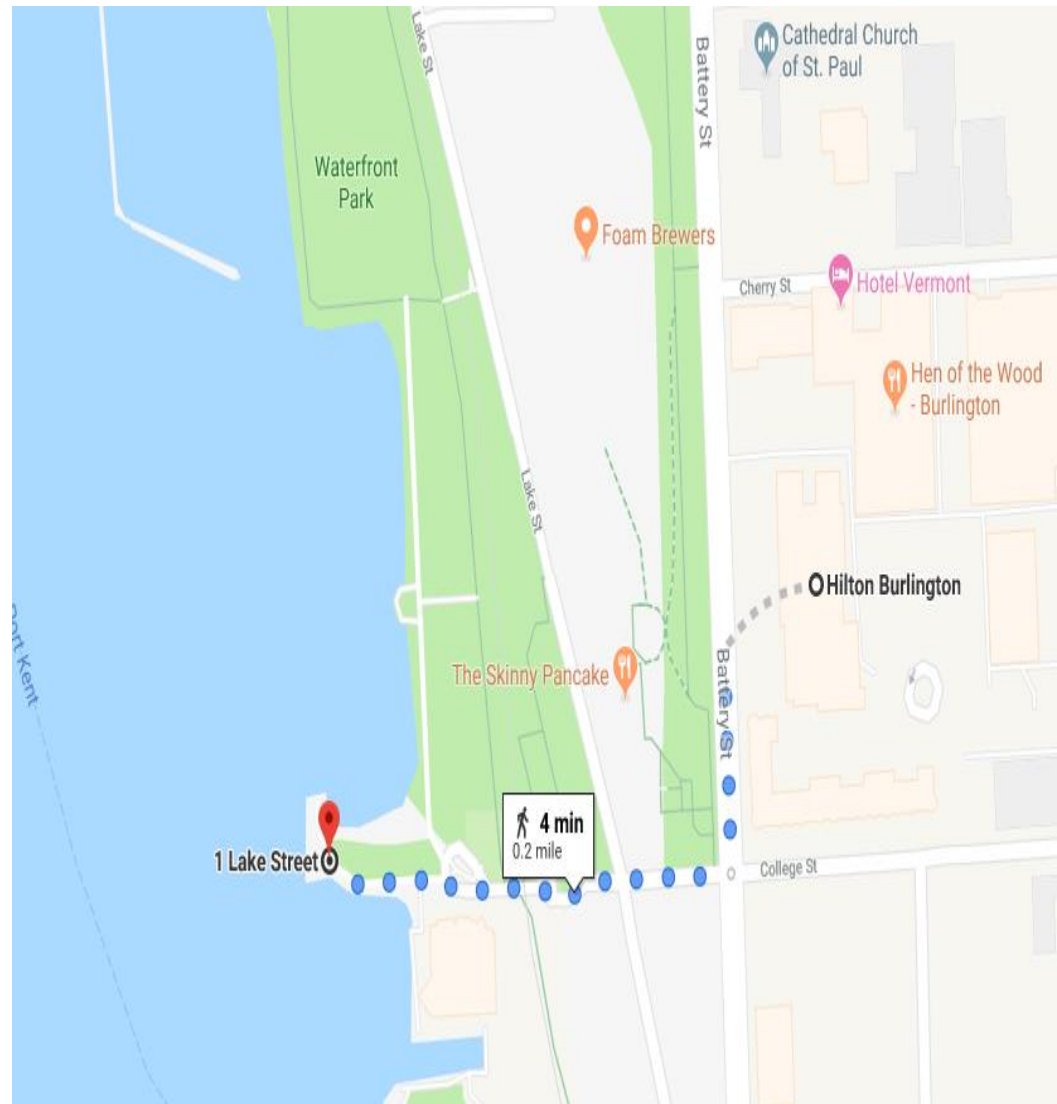
- 2) Wednesday June 26<sup>th</sup> we will walking to the Spirit of Ethan Allen Dinner Cruise. The walk should be less than 10 minutes. You will need to be on time as the boat leaves at 6:30 pm I will have tickets for you at the gangplank.

Spirit of Ethan Allen Cruise

1 Lake Street

Burlington, VT 05401

802-862-8300



## Getting to Burlington, VT

**By Plane:** Burlington Airport is approximately 4 miles from our hotel. I have confirmed that there are direct flights into Burlington from Chicago (O'Hare), Atlanta, Newark, Philadelphia, New York City (both JFK and La Guardia) and Detroit. A taxi from the airport to the hotel should be less than \$20.

**By Car:** If you are inclined to drive, driving times from three close large cities are as follows: Boston (3.5 hours); New York City (6 hours); and Montreal, Canada (2 hours). Carol and I did fly into Montreal and drove to Burlington in 2017. Nice drive with great roads.

## Things to See in and Around Burlington:

- Flying Monkey Sculptures:** Wizard of Oz monkeys on Burlington Buildings
- Burlington Earth Clock:** Stonehenge-like monument that tells time
- Lake Champlain Monster Monument:** Champ, Vermont's answer to Nessie
- Fire Hydrant Jack:** Jack made of 6 real fire hydrants
- World's Tallest File Cabinet:** 38 feet of orderliness
- Ted Bundy Birthplace Site:** Famous serial killer
- Zero Gravity Brewery:** Beer brewed without hops

## Close to Burlington:

- Ben and Jerry's Flavor Graveyard:** Tombstones of retired flavors
- von Trapp Lodge:** The hills are alive with music in Vermont
- Site of the Battle of Lake Champlain:** Defeat of British in naval and land battle

## Southern Vermont:

- Birthplace of Brigham Young:** Second Prophet of the Mormon Church
- Rudyard Kipling:** Wrote The Jungle Book in Battleboro, VT
- John Deere:** Inventor of steel plow. Opened the western plains for settlement
- World's Largest Bee:** It is just a big honey of a bee
- Aleksander Solzhenitsyn:** Lived in Cavendish, VT during his exile from Russia

## Gone, But Not Forgotten:

- Pete and Punk:** Largest paired oxen in history at 6300 lbs (today only 2,863.6 kg)

Saturday, June 22

Happy Hour

18:00 – 20:00

AGM attendees and Accompanying Persons

Hilton Burlington Bar

## Sunday, June 23

### Breakfast

07:00 – 08:30

AGM attendees and Accompanying Persons  
Adirondack A

### Registration

From 08:00

AGM attendees and Accompanying Persons  
Prefunction Lobby

### First Business Meeting

08:30 – 11:30

Willie Hendrickson, Chair

Members, Consultants

Adirondack CD

8:30	Call to Order	Willie Hendrickson (IFPRI)
8:40	Reading of Minutes from Last Meeting	Matt Maille (Keurig Dr. Pepper)
8:50	Financial Status and Budget	Willie Hendrickson (IFPRI)
9:10	Membership Status and Invited Guests	Willie Hendrickson (IFPRI)
9:40	Communication Report	Matt Maille (Keurig Dr. Pepper)
10:00	Coffee Break	
10:15	Technical Program Status	Judith Bonsall (Unilever), Jim Michaels (IFPRI)
11:00	Planning and Other Business	Willie Hendrickson (IFPRI)
11:30	End	

### Lunch

11:30 – 12:30

AGM attendees and Accompanying Persons  
Adirondack A

## Welcoming Lunch for New and Prospective Members

11:30 – 12:30

IFPRI Officers, Consultants, New Members, Prospective Members

Location tbd

## AGM Welcome & Project Presentations

12:30 – 17:15

Judith Bonsall, Chair

Members, Consultants, Prospective Members, Research Associates, IFPRI  
Students, AGM Guests

Adirondack CD

12:30	Welcome & Introduction of Guests	Willie Hendrickson (IFPRI)
12:40	Opening Comments	Judith Bonsall (Unilever)
12:50	Welcome to Vermont	Matt Maille (Keurig Dr. Pepper)
13:00	Particle Technology – A 40 Year Review	Bryan Ennis (E&G Associates)
13:25	Prediction of Segregation	Joe McCarthy (U. Pittsburgh)
13:35	Powder Mixing Rules	Indresan Govender (U. Kwazulu-Natal)
13:45	Molecular Self Assembly	Uli Wiesner (Cornell U.)
13:55	Crystal Shape Prediction	Mike Doherty (U.C. Santa Barbara)
14:05	Spray Drying at High Temperature	Andrew Bayly (U. Leeds)
14:20	Characterisation of Spray Nozzles	Nasser Ashgriz (U. Toronto)
14:35	Flow of weakly consolidated powders	Colin Hare (U. Surrey)
14:45	Die Filling of Aerated Powders	Chalie Wu (U. Surrey)
15:00	Dry Powder Rheology	Karen Daniels (North Carolina State U.)
15:10	Dry Powder Rheology Collaboration	Nathalie Vriend (U. Cambridge)
15:20	Coffee	
15:40	Powder Adhesion to Metal Surfaces	Csaba Sinka (U. Leicester)
15:55	Long-term Stability of Attractive Colloidal Gels	Wilson Poon (U. Edinburgh)
16:10	Cake Filtration	Urs Peuker (TU Bergakademie Freiburg)
16:20	Wetting and Dispersion of Powders	Claire Gaiani (U. Lorraine)
16:35	Slurry & Paste Rheology	Erin Koos (KU Leuven)
16:50	Model Based Control of Crystallisation	Zoltan Nagy (Purdue U.)
17:05	Creating Tuneable Agglomerates via 3D Printing	Karen Hapgood (Deakin U.)
17:15	End	

Welcoming Happy Hour and Sporting Event

17:30 – 18:15

Board bus at 17:30

***Buses Leave Front of Hotel at 17:45 Sharp***

AGM attendees and Accompanying Persons

Shelburne Farms

# Monday, June 24

Breakfast  
07:00 – 08:30  
AGM attendees and Accompanying Persons  
Adirondack A

Registration  
From 08:00  
AGM attendees and Accompanying Persons  
Prefunction Lobby

Project Reviews - Posters  
08:00 – 12:00  
Judith Bonsall, Chair  
Members, Consultants, Prospective Members, Research Associates, IFPRI Students,  
AGM Guests  
Adirondack CD

8:00	Session Introduction	
8:15	Poster Part 1	
9:30	Coffee	
9:45	Poster Part 2	
10:45	Coffee	
11:00	Poster Part 3	
12:00	Adjourn for lunch	

Lunch  
12:00 – 13:00  
AGM attendees and Accompanying Persons  
Adirondack A

Project Reviews - Posters

13:00 – 14:00

Judith Bonsall, Chair

Members, Consultants, Prospective Members, Research Associates, IFPRI Students,  
AGM Guests  
Adirondack CD

13:00	Poster Part 4	
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14:00	End	
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Project Reviews – RA Feedback

14:00 – 15:30

Judith Bonsall, Chair

Members, Consultants, Prospective Members, Research Associates, IFPRI Students,  
AGM Guests  
Adirondack CD

14:00	Feedback from Research Associates	
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15:30	Break	
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Members' Project Discussion

16:00 – 18:00

Judith Bonsall, Chair

Members, Consultants, Prospective Members  
Adirondack CD

16:00	Discussion of projects	
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17:30	Quality review of renewal proposals	
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18:00	End	
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Happy Hour

18:00 – 19:00

AGM attendees and Accompanying Persons  
Burlington Hilton Bar

Dinner on your own

Tuesday, June 25

Breakfast  
07:00 – 08:30  
AGM attendees and Accompanying Persons  
Adirondack A

Registration  
From 08:00  
AGM attendees and Accompanying Persons  
Prefunction Lobby

Reviews, Round Robin, and Consultants' Reports  
08:30 – 12:35  
Judith Bonsall, Chair  
Members, Consultants, Prospective Members, Research Associates, IFPRI  
Students, AGM Guests  
Adirondack CD

8:30	Session Introduction	Judith Bonsall (Unilever)
8:35	Coating of Fine Particles	A Buck (U. Erlangen)
9:15	Confronting the Drys System Challenge	V Magnanimo (U. Twente)
9:55	Systems Engineering Gap Analysis	P Mort (Purdue U.)
10:35	Coffee	
11:05	DEM Round Robin Update	Kit Windows-Yule (U. Birmingham)
11:35	Size Reduction Consultant's Report	Mojtaba Ghadiri (U. Leeds)
11:45	Particle Formation Consultant's Report	Jim Litster (U. Sheffield)
11:55	Characterization Consultant's Report	Satoro Watano (Osaka Prefecture U.)
12:05	Dry Systems Consultant's Report	Michel Louge (Cornell U.)
12:15	Wet Systems Consultant's Report	Eric Furst (U. Delaware)
12:25	Systems Engineering Consultant's Report	Paul Mort (Purdue U.)
12:35	End	

**Lunch**  
**12:35 – 13:45**  
 AGM attendees and Accompanying Persons  
 Adirondack A

**Strategic Planning Session**  
**13:45 – 18:00**  
**Judith Bonsall & Jim Michaels, Chairs**  
 Members, Consultants, Prospective Members, Research Associates, IFPRI  
 Students, AGM Guests  
 Adirondack CD & Breakout Areas

13:45	Session introduction	Judith Bonsall (Unilever)
13:50	Idea Generation for New Program/Reviews/Workshops etc	All
15:15	Break	
15:30	Idea Feedback	All
16:30	Idea Refinement	All
18:00	End	

**Dinner on your own**

## Wednesday, June 26

Breakfast  
07:00 – 08:30  
AGM attendees and Accompanying Persons  
Adirondack A

Registration  
From 08:00  
AGM attendees and Accompanying Persons  
Prefunction Lobby

Technical Session Name  
08:30 – 10:30  
Chair  
Members, Consultants, Prospective Members, Research Associates, IFPRI  
Students, AGM Guests  
Adirondack CD

8:30	Session Introduction	Judith Bonsall (Unilever)
8:35	Presentation and discussion of Refined Ideas for Future Program/Reviews/Workshops etc	
10:00	coffee	

Proposal Selection – First Round  
10:30 – 13:00  
Judith Bonsall, Chair  
Members, Consultants, Prospective Members  
Adirondack CD

10:30	Consultant Feedback on Proposals	
11:00	Quality Discussion and Selection of Preferred Proposals for Dot Voting on Thursday	
13:00	End	

**Lunch**  
**13:00 – 13:45**  
 AGM attendees and Accompanying Persons  
 Adirondack A

**Poster Session**  
**13:45 – 16:45**  
 Tim Bell, Chair

AGM and Poster Session Attendees  
 Montpelier Conference Room

13:45	Session Introduction	Tim Bell (DuPont)
13:50	Poster Session	
16:30	Poster Awards Presentation	Willie Hendrickson (IFPRI)
16:45	End	

**41<sup>st</sup> IFPRI Banquet**  
**17:45 – 21:00**  
***Walk from Burlington Hilton – 17:45 Prompt Departure from Hilton Lobby***

AGM attendees and Accompanying Persons Registered for Banquet  
 Spirit of Ethan Allen

## Thursday, June 27

Breakfast  
07:00 – 08:30  
AGM attendees and Accompanying Persons  
Adirondack A

2019-2020 Program Selection Meeting  
08:00 – 12:00  
Judith Bonsall and Jim Michaels, Chairs  
Members, Consultants (Optional), Prospective Members  
Adirondack CD

08:00	Project, review, and workshop briefs available in meeting room for final review	All
9:30	Session Introduction - Establish Quorum	Judith Bonsall (Unilever)
9:40	Dot voting on renewals and new proposals	All
9:55	Counting/declaration of rank order for proposals	Jim Michaels (IFPRI)
10:00	Final discussion of project and review briefs	All
10:30	Dot Voting for reviews – Including working coffee break	All
10:45	Counting/declaration of rank order for reviews	Jim Michaels (IFPRI)
10:50	Dot Voting for Workshops	All
11:00	Counting/declaration of rank order for workshops	Jim Michaels (IFPRI)
11:05	Dot Voting for Project Briefs	All
11:20	Counting/declaration of rank order for project briefs	Jim Michaels (IFPRI)
11:25	Prospective member comments	Prospective Members
12:00	End	

Lunch  
12:00 – 13:00  
AGM attendees and Accompanying Persons  
Adirondack A

**Final Business Meeting**

**13:00 – 15:30**

**Willie Hendrickson, Chair**

**Members, Consultants (Optional)**

**Adirondack CD**

13:00	Membership Discussion	Willie Hendrickson (IFPRI)
13:30	2020 and 2021 AGM Site Selection	Willie Hendrickson (IFPRI)
13:45	Final Budget Discussion and Approval	Willie Hendrickson (IFPRI)
14:15	Feedback from Academics	Consultants
14:30	Consultants' Performance Discussion	All except Consultants
15:00	Officers Performance Discussion	All except Willie and Jim
15:30	AOB	
16:00	End	