



Session B: TUR Success Stories

Alicia McCarthy
Toxics Use Reduction Virtual Conference
November 10, 2022
2:30-4:00 pm



Introductions

TURI



Jason Marshall
Lab Director



Alicia McCarthy
Lab Specialist



Gabriel Salierno
Green Chemist



Amelia Wagner
Research Assistant

Guests



Chuck Shepard
cshepard@seshires.com



Brian Priano
brian.priano@barryind.com



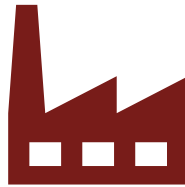
Lisa Lyons
llyons@cedarsfoods.com

Please put your name and affiliation into the chat

Outline of Session



TURI Lab update



Case Studies



Panel discussion

TURI Lab Update



TUR Trends

- Expanding focus on sector-spanning opportunities
 - Surface cleaning
 - Hansen Solubility Parameters in Practice (HSPiP) utilization
 - Sanitizing & disinfection
 - Areas of Interest:
 - PFAS
 - Flame Retardants
 - Drive to Zero

Halogenated Solvent Guide



Future of TUR

- Green Chemist
- Solving TUR roadblocks
- Building capacity for the next generation

Gabriel Salierno

- Background
 - Master's type II in Chemistry
 - Ph.D. (Industrial Chemistry)
- Area of Expertise
 - Chemical Reactor Engineering / Analytical Chemistry
- Interest Areas
 - Green Chemistry / Cleaner production
- Current projects and ideas
 - Solventless degreasing / closed loop solvent use
- Goals going forward as the Green Chemist
 - Making green chemistry and circular economy feasible for MA industry



Universidad de Buenos
Aires (Argentina)



ACS I&E
member

Student Experience – Amelia Wagner



- Background
 - B.S. Public Health (*University of Massachusetts Lowell*)
 - Lab Assistant (*TURI, Jan 2022*)
 - Industrial Testing Focus

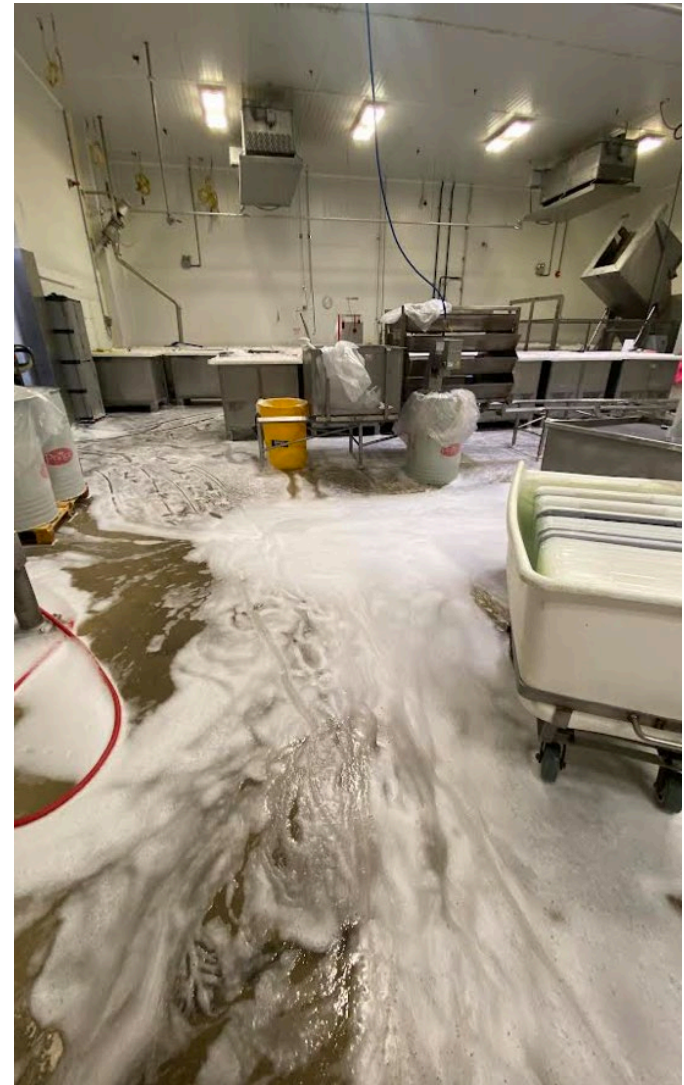
- Pollution Prevention (P2) Summer Internship
 - EPA Grant Funded
 - Food & Beverage Manufacturing Industry
 - Cedar's Mediterranean Foods
 - Bake N' Joy

- P2 Internship Role
 - Identify areas of solid food waste and other areas of waste
 - Research and suggest potential solutions for company to implement



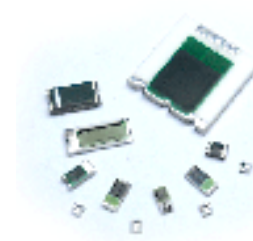
P2 Internship Experience with Company

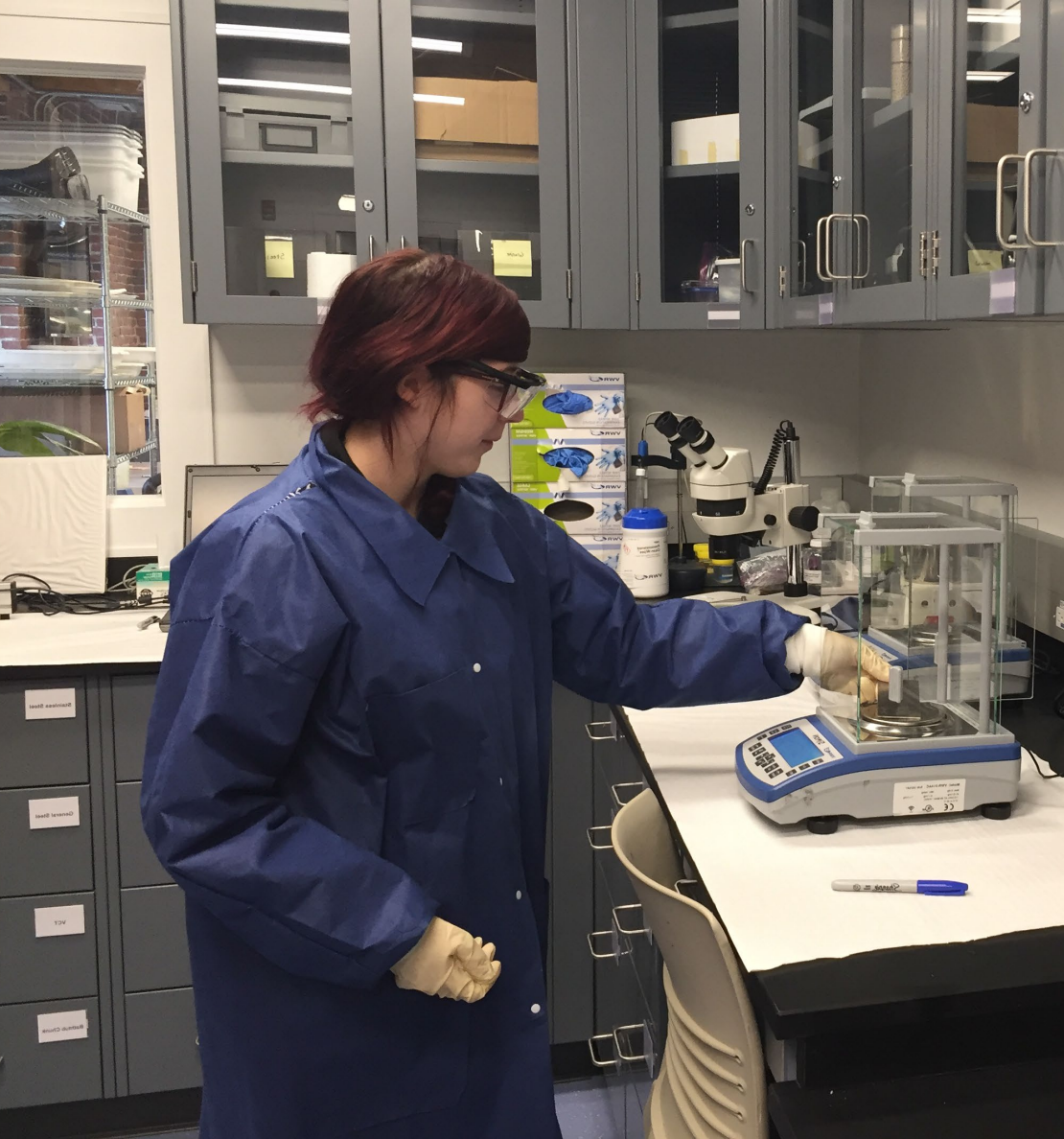
- Responsibilities and Deliverables
 - Onsite assistance at facility
 - Evaluation of P2 opportunities
 - Alternatives identification
 - Alternatives assessment
 - Laboratory performance testing at TURI
 - Produce an overall final report



Case Study Summaries

- Cedar's Mediterranean Foods
 - Lisa Lyons
- S.E Shires
 - Chuck Shepard
- Barry Industries
 - Brian Priano
 - Kevin Schmidt





The Massachusetts Toxics Use Reduction Institute

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