

# Welcome to the 5<sup>th</sup> ICFA mini-workshop on Space Charge

## Chairs:

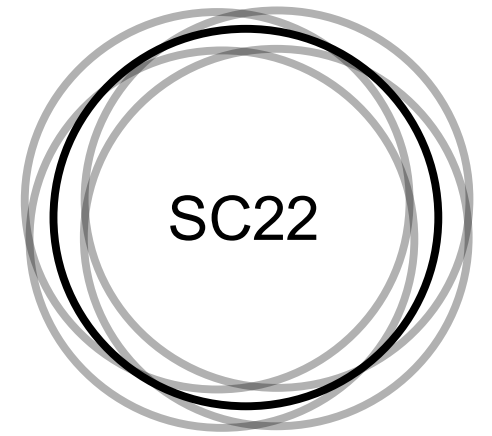
Kiersten Ruisard, Nick Evans

## Administrative support:

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## Program Committee:

Rick Baartman, Triumf  
Hannes Bartosik, CERN  
Oliver Boine-Frankeheim, GSI  
Sarah Cousineau, ORNL  
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Georg Hoffstaetter, Cornell  
Hideaki Hotchi, JPARC  
Shinji Machida, RAL  
Sergei Nagaitsev, FNAL  
Jean-Luc Vay, LBNL

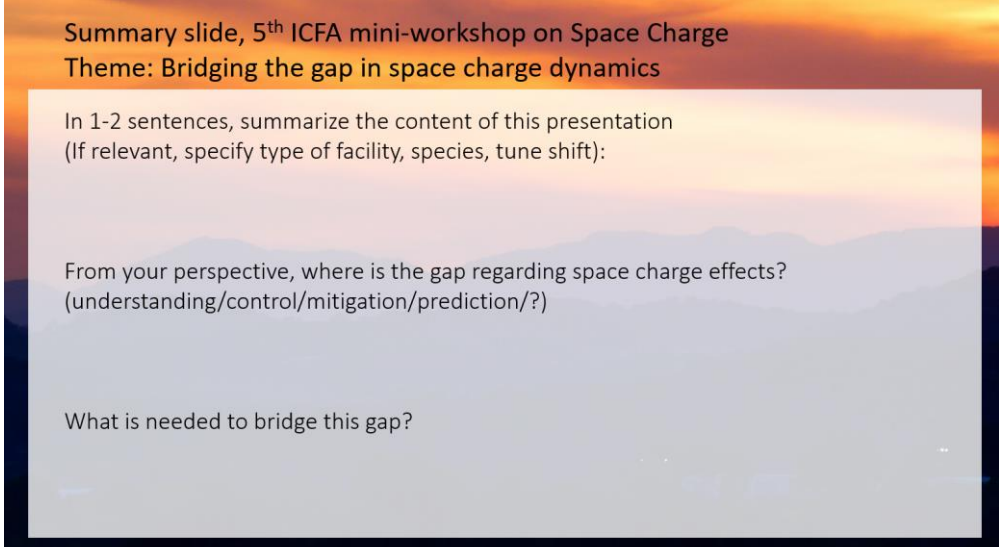


# Workshop Goals

## “Bridging the gap”

- Review breadth of challenges in understanding and operating with space charge
- Identify areas where deeper understanding/development is needed
- Discuss tools, mitigations + strategies

Thanks for working in the theme slide!



Summary slide, 5<sup>th</sup> ICFA mini-workshop on Space Charge  
Theme: Bridging the gap in space charge dynamics

In 1-2 sentences, summarize the content of this presentation  
(If relevant, specify type of facility, species, tune shift):

From your perspective, where is the gap regarding space charge effects?  
(understanding/control/mitigation/prediction/?)

What is needed to bridge this gap?

# Timetable

## Monday:

- 1<sup>st</sup> session
  - GARD perspective on space charge
  - “Is it halo”?
  - Overview of simulation code status
- Facility perspectives

## Lunch!

- Space Charge in Rings (FNAL and CERN)

# Timetable

Tuesday:

- Theory and simulation for space charge

Lunch!

- Space charge at low/medium energy
- Unconventional systems

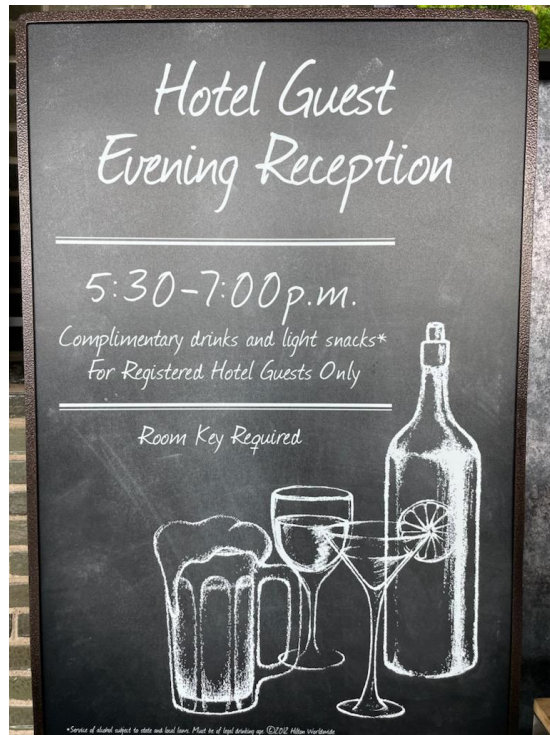
# Timetable

Wednesday AM:

- Space charge in electron beams
- “Beams by design” for space charge mitigation
- Done by 1 PM

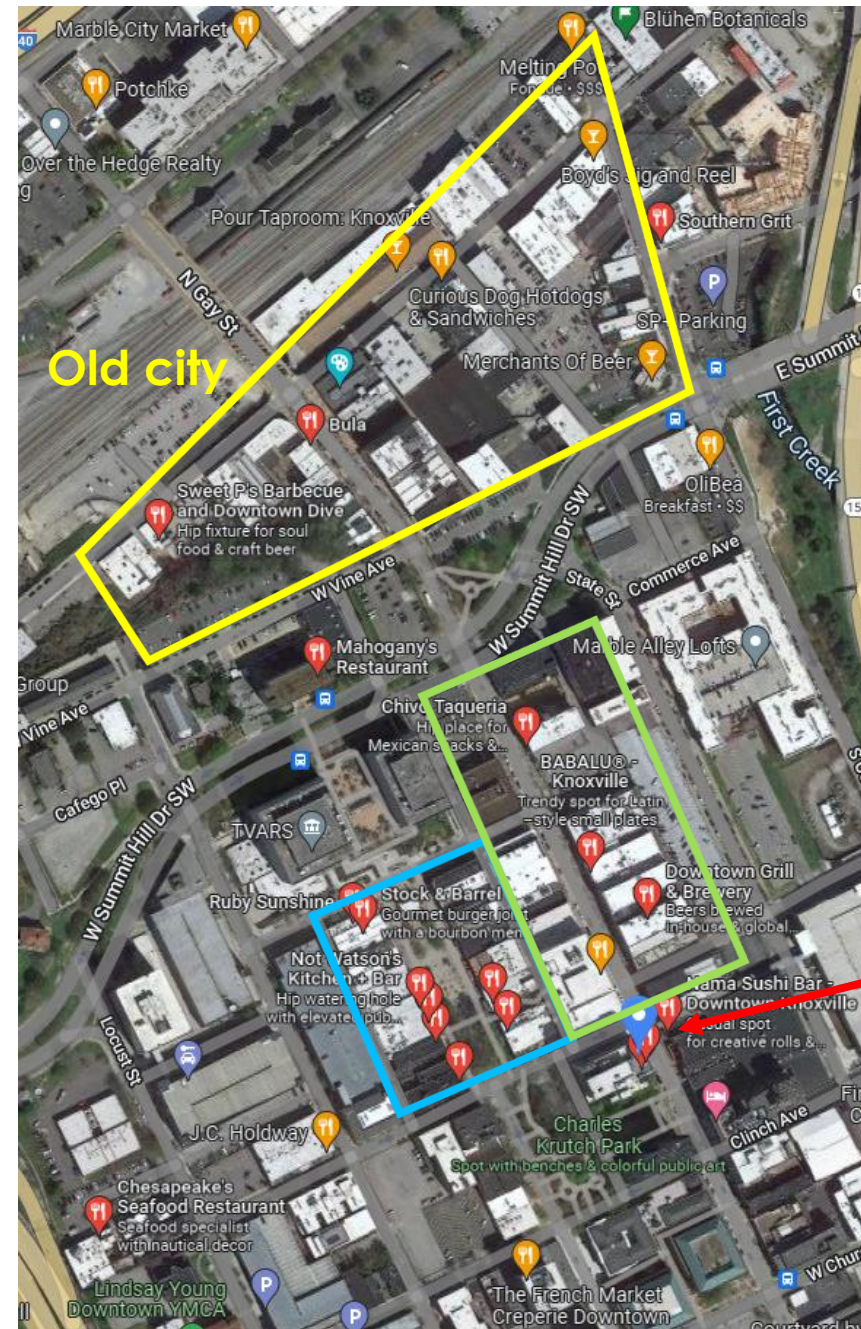


# Eating and socializing



Market  
Square

<https://conference.sns.gov/event/335/page/2476-dining-recommendations>



Gay Street

We are  
here