



IEMDC 2029

May 13-16 2029

Vandana Rallabandi and Nishanth Gadiyar



U.S. DEPARTMENT
of **ENERGY**

ORNL IS MANAGED BY UT-BATTELLE LLC
FOR THE US DEPARTMENT OF ENERGY



Outline

- Location and Organizing committee
- Venue
- Travel and logistics
- Tours and Activities
- Tentative program
- Proposed budget summary

Location

Knoxville, Tennessee, USA

- Gateway to the great smoky mountains, the most visited national park in the USA.
- Home to the University of Tennessee (UTK) and the Oak Ridge National Laboratory (ORNL).



Organizing Committee

Chair: Vandana Rallabandi

- Sr. R&D Staff Member, ORNL
- Organizing committee member
 - ECCE 2026
 - IEMDC 2025
 - ECCE 2023
 - Topic chair, ECCE 2018- 2022, 2024 and 2025



Co-Chair: Nishanth Gadiyar

- Distinguished Staff Fellow, ORNL
- Organizing committee member
 - ITEC 2023, 2024, 2025
 - IEMDC 2025
 - Topic chair, ECCE 2024, 2025
 - IEEE-DMC 2027



Proposed Local Committee:

Kevin Bai
Professor, UTK



Org. Com, COMPEL 2025
TPC Chair, ECCE 2024

Shajjad Chowdhury
Group Leader, ORNL



Org. Com, ECCE 2024

Daniel Costinett
Professor, UTK



General Chair, COMPEL 2025
Vice Chair, ECCE -22
Local Chair, WiPDA 2014

Baoyun Ge
Asst. Professor, GaTech



Topic Chair, ECCE 2025

Subho Mukherjee
R&D Staff Member, ORNL



TPC, COMPEL 2025
Topic Chair, ECCE 2024

Burak Ozpineci
Section Head, ORNL



President elect, IEEE-TEC
Co-Chair, COMPEL 2025
Chair, IEEE IAS TSC, 2016-17
General Chair, WiPDA 2014

Rafal Wojda
R&D Staff Member, ORNL



Chair, IEEE-DMC 2027
TPC Chair, COMPEL 2025
Chair, East Tennessee
PELS/PES Joint Chapter,
2022- present

Conference Organization Experience in Knoxville

Conference	Host
2014 IEEE Workshop on Wide Bandgap Power Devices and Applications (WiPDA)	ORNL / UTK
2016 IEEE PELS Workshop on Emerging Technologies: Wireless Power Transfer (WoW)	ORNL / UTK
2022 IEEE International Future Energy Competition (IFEC)	UTK
2025 IEEE Workshop on Control and Modeling of Power Electronics (COMPEL)	UTK/ORNL
2027 IEEE Design Methodologies Conference For Power Electronics (DMC)	ORNL

The team has experience organizing multiple IEEE conferences in Knoxville

Venue

The Knoxville convention center

- Located in downtown Knoxville, by the World's fair park
- 2x Exhibit Halls
 - 70,000 sqft
 - 49,000 sqft
- 14x Meeting Rooms
 - 1000-1500sqft each
- 1x Ballroom
 - 27,000 sqft



Sufficient space for over 1000 attendees and all types of sessions

Social Event Venues



Knoxville Sunsphere

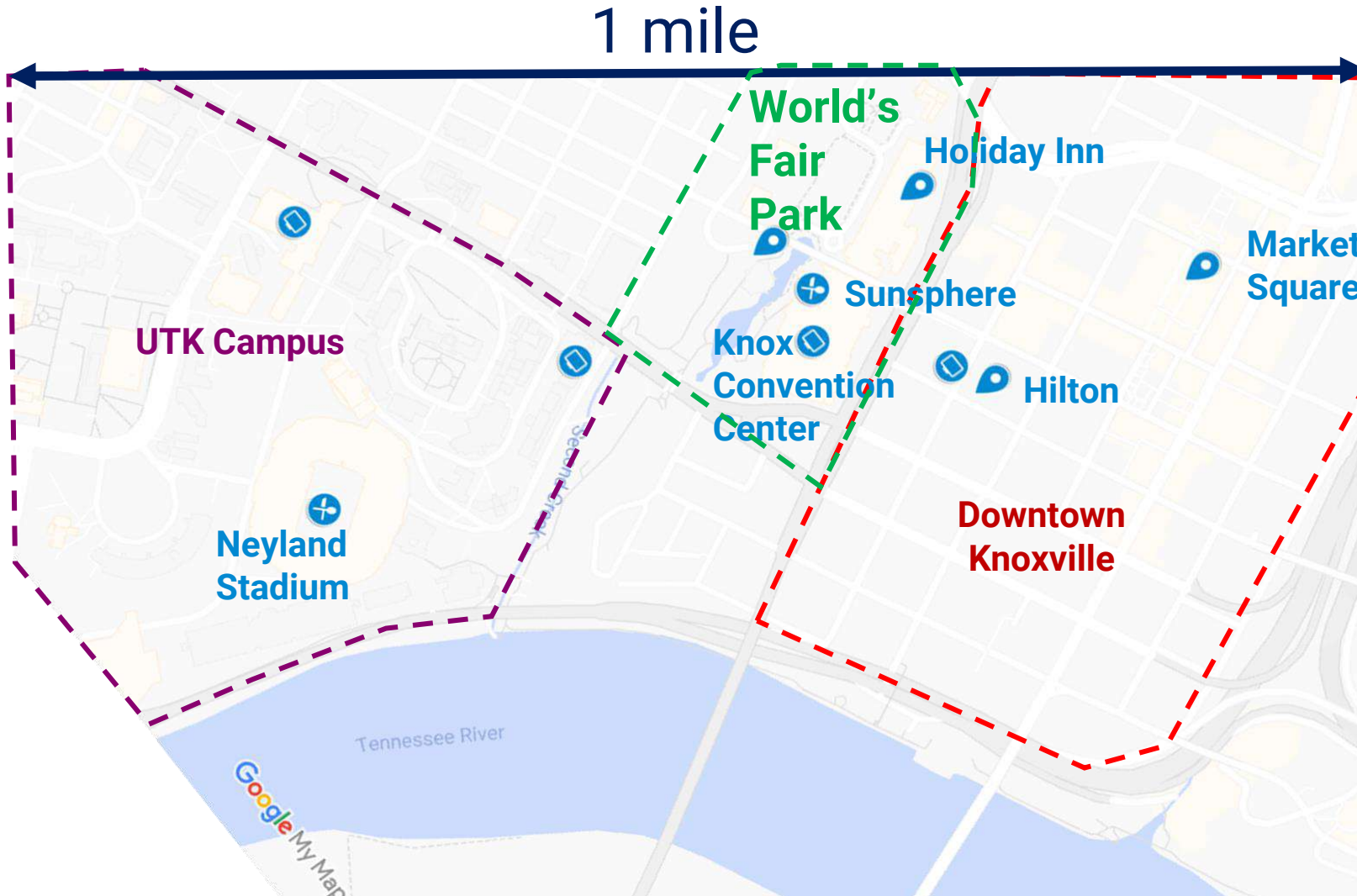
- One level accommodates 180, seated
- Second floor adds 50 seats
- Overlooks downtown, World's Fair Park, and UTK Campus
- Potential venue for YP / Industry night

Neyland Stadium

- 8th largest stadium in the world
- Multiple hospitality spaces to seat >250
- Potential venue for welcome reception



Location in Knoxville



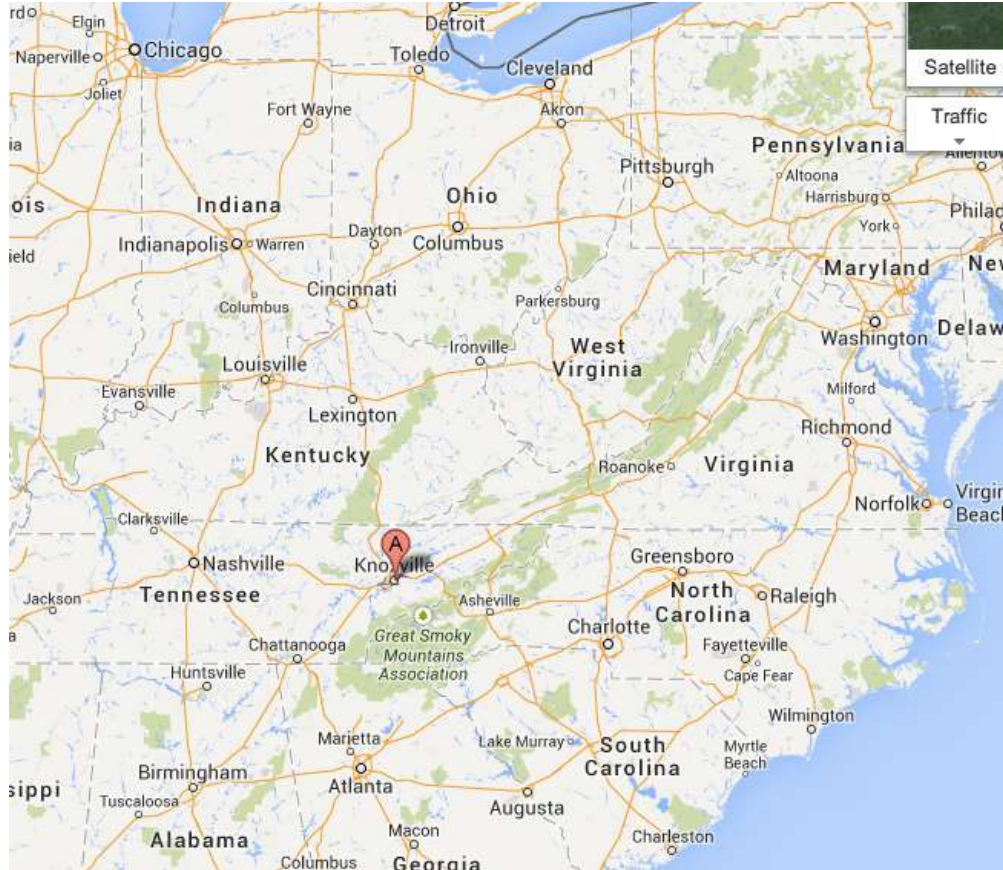
Conference venue and Social Event venues are all within a 1 mile radius

Travel and Logistics



Knoxville has non-stop flights to over 30 domestic destinations including international hubs at Atlanta, Charlotte, Philadelphia, New York, Houston, Washington DC, and Chicago

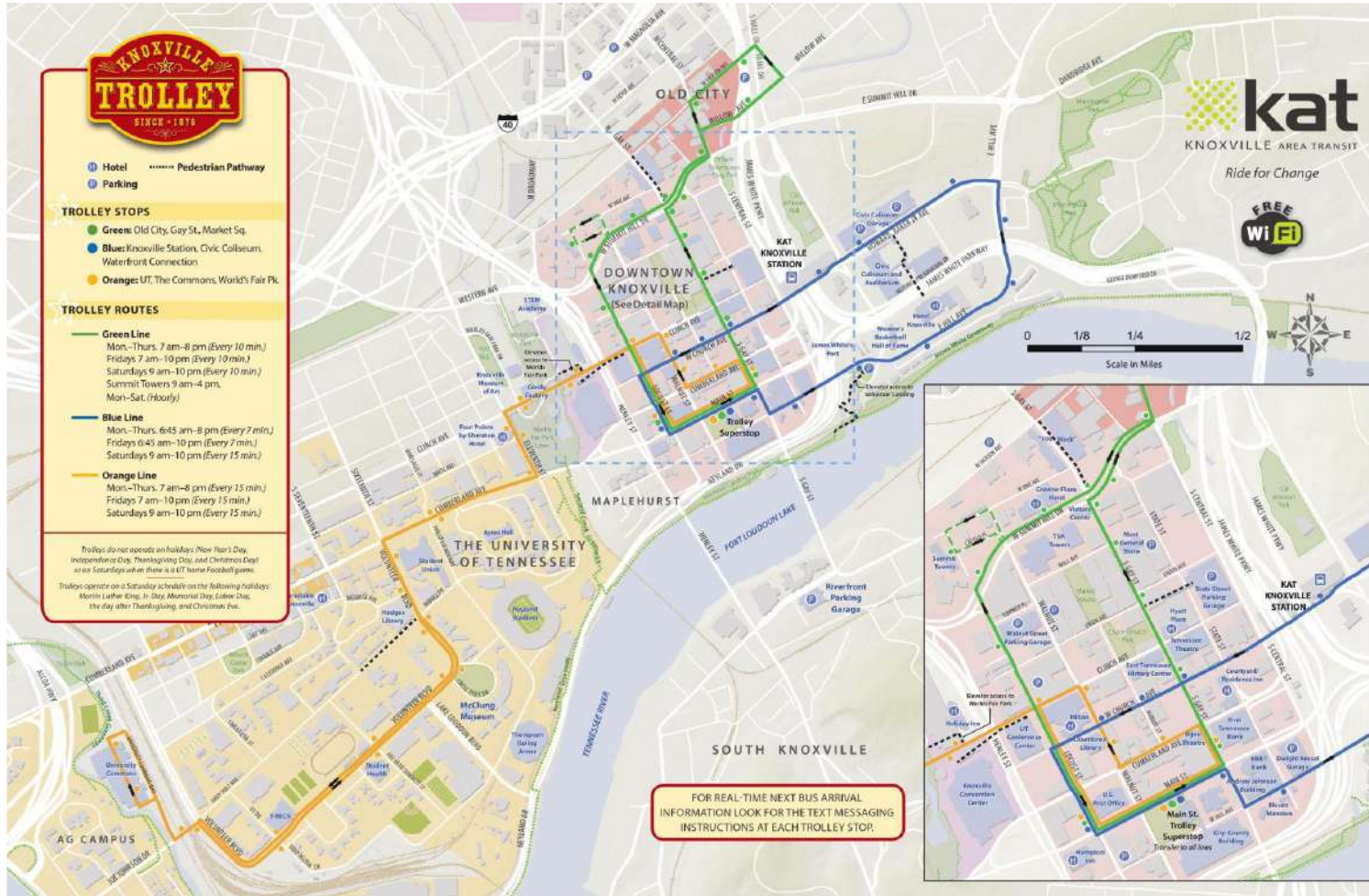
Travel and Logistics



DRIVING TO KNOXVILLE, TN			
FROM	MILES	DRIVING MILES	DRIVING TIME
Atlanta, GA	158	214	3 hrs and 19 mins
Charleston, WV	204	310	4 hrs and 47 mins
Chicago, IL	450	542	8 hrs and 32 mins
Columbia, SC	216	263	4 hrs and 11 mins
Columbus, OH	276	368	6 hrs and 40 mins
Dallas, TX	766	844	12 hrs and 38 mins
Indianapolis, IN	285	380	5 hrs and 36 mins
Louisville, KY	185	247	3 hrs and 54 mins
Memphis, TN	341	391	5 hrs and 53 mins
Miami, FL	741	876	13 hrs and 10 mins
Nashville, TN	161	181	2 hrs and 48 mins
New York, NY	626	707	11 hrs and 17 mins
Orlando, FL	538	653	9 hrs and 52 mins
Pittsburgh, PA	372	493	7 hrs and 41 mins
Raleigh, NC	300	364	5 hrs and 50 mins
Richmond, VA	376	434	6 hrs and 50 mins
St. Louis, MO	388	486	7 hrs and 30 mins
Washington, DC	427	487	7 hrs and 42 mins

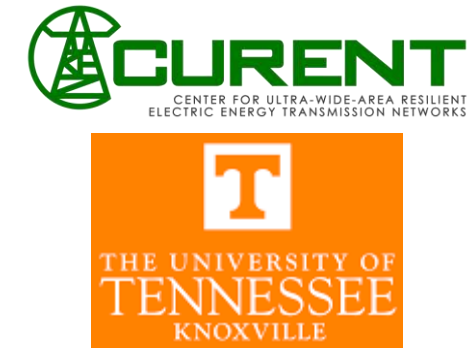
Drive to 15 major US cities within 10 hours

Local Transportation



KAT public transportation (bus), and rideshare (uber / lyft) are available

Potential Tours



Local Activities



American Museum of Science and Energy (AMSE) Bus Tours

The AMSE tour includes a bus tour that visits sites such as the Y-12 New Hope Center, ORNL's Graphite Reactor, and the K-25 History Center

Ijams Nature Center

315 Acres of hiking biking, paddling, swimming, climbing, exercise, and play including ropes course and ziplines



Knoxville Zoo

Attractions include Tiger Forest, Red Panda Village, and the Gorilla Valley. The Amphibian and Reptile Conservation Campus opened in 2021.

Knox Brew Tours

Walking (downtown) or "brew bus" tours and tastings at 7+ local breweries



Nearby Activities (~1hr drive)

Great Smoky Mountain National Park

UNESCO World Heritage Site and most-visited national park in the US



Dollywood

Dolly Parton theme park containing rides, waterpark, games, and traditional crafts and music of the Smoky Mountain area

Gatlinburg

The most popular entrance to the Great Smoky Mountain National Park, Gatlinburg is full of souvenir shops, craft stores, restaurants and kitschy attractions



Tentative Program

Proposed dates: May 13-16, 2029

	Day 1	Day 2	Day 3	Day 4
AM	Registration and Tutorial	Opening, Keynotes 1&2	Keynotes 6-8	Oral Session
		Keynotes 3-5	Oral Session	
		Expo Lunch	Lunch on Own	
PM	Welcome Reception	Special Sessions	Oral Session	X
		Poster Session	Poster Session	
			YP / Industry Night	

Proposed Budget Summary

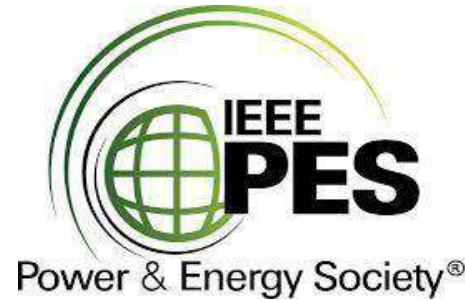
REVENUE	Preliminary Budget (Assuming 300 registrations)	Preliminary Budget (Assuming 400 registrations)
Student Registration	142500	190000
IEEE Member Registration	132000	165000
Onsite Registration	9000	15000
Sponsorship	12000	12000
Exhibits	50000	50000
Loan from IEEE Sponsors	30000	30000
Food and Beverage Credit for reception	6000	6000
Total Revenue	381500	468000
EXPENSES		
Management Services	50000	50000
Publication Expense	7500	8000
Food and beverage	140000	185000
Electricity and WiFi	10000	10000
Honorarium	6000	6000
Promotional	1000	1000
Program printing	2500	3500
Audit Fee	2000	2000
Local Arrangements and A/V	50000	50000
Admin (Credit Card, staff)	9000	9000
Keynote Gifts	1500	1500
Floral	500	500
Loan Repayment to IEEE	30000	30000
Total Expenses	310000	356500
SURPLUS	71500	111500
Surplus percentage (to expense)	23.06	31.27

Proposed budget expects >23% surplus

Sponsors

Financial Sponsors:

- IEEE PELS
- IEEE IAS
- IEEE IES
- IEEE PES



Technical co-sponsors:

- IEEE IAS/PELS, PES, IES, and TEC

Potential Industry Sponsors / Exhibitors



Thank You
