



NATIONAL YOUTH ENGINEERING CHALLENGE

**September 24-26, 2017
Tentative Schedule**

Sunday, September 24

- 1:00 – 1:30 pm Welcome, Introductions, general orientation
- 1:30 – 2:00 pm Contest orientation – Challenge-focused events (robotics and aerospace engineering)
- 2:00 – 9:00 pm Contest (robotics and aerospace engineering) –
4-H Building, Fairgrounds
- 1:30 – 6:00 pm All other contestants (Hands-on learning activity focused on engineering design).
Youth in teams of 3 to 5 will design and build a “mousetrap powered vehicle” and a
“Micro- Pulling tractor”
Home Economics Building, Fairgrounds
- 4:00 – 6:00 pm Registration (*Home Economics Building, Tippecanoe County Fairgrounds*).
Coaches and adults may register their teams.
Youth may pick up their T-shirt during dinner.
Contest setup (Tippecanoe County Fairgrounds – performed by Indiana volunteers
under the guidance of contest chairs/co-chairs)
- 5:00 pm Aerospace Engineering Contestants - Timoth’ee L. Pourpoint, Ph.D., Associate Professor,
School of Aeronautics and Astronautics
- 6:00 pm Dinner at Tippecanoe County Fairgrounds – *Home Economics Building, Fairgrounds*
- 7:00 pm “Mousetrap Car” and “Micro-pulling Tractor” competitions
- 8:00 pm Contestants – Get Acquainted – *Home Economics Buildings, Fairgrounds*
- 8:30 pm Contest officials – Event planning meeting – *Home Economics Buildings, Fairgrounds*
- 9:00 pm Contest Orientation for youth (except robotics and aerospace engineering)
- 9:30 pm Return to hotel
- 11:30 pm In rooms, quiet

Monday, September 25

- 7:15 am Key adults leave for fairgrounds to finalize setup
- 8:15 am Contests begin (Tippecanoe County Fairgrounds) – all but aerospace engineering

Aerospace Engineering Program

- 7:45 am Aerospace contestants board vans to travel to Purdue campus
- 8:15 – 9:30 am Airport Orientation & Correction Phase, Purdue Airport
- 9:30 am Call Control Tower and alert to pending shoot-off
- 9:45 – 11:00 am Rocket Launch - Zucrow Labs - Cricket Field/Paintball Club & Archery Club field
- 11:00 – 12:00 pm Guided tour of the Purdue University Zucrow Laboratories
- 12:15 – 1:00 pm Lunch at Purdue West
- 1:15 – 2:45 pm Purdue Airport Tour/Workshop Terminal Building
- 3:00 pm – 4:30 pm Purdue Library Archives – Stewart Center, Swaim Instruction Room
- 4:45 pm – 5:15 pm Tour Armstrong Hall
- 5:15 pm Return to fairgrounds

- 12:00 – 1:00 pm Lunch on your own
- 1:00 pm All contestants (except aerospace engineering) and adults board buses for Purdue University
- 1:15 pm Buses depart fairgrounds for Purdue University

Adult Program

- 1:30 – 2:30 pm Campus tour – Purdue campus
2:30 – 3:15 pm How can my son or daughter better prepare for college?
3:30 – 5:30 pm. Free time to explore campus; relax in the Union and checkout the gift shop

Youth Program (except aerospace engineering)

- 1:30 – 2:15 pm Youth campus tours
2:30 – 4:30 pm Youth Educational Workshops (Purdue University campus)
 - Group 1 – Mechanical Engineering Technology (Pneumatics) program (KNOY 114) and Electrical Engineering Technology program (Digital Electronics) (MGL 1229)
 - Group 2 – ¼ scale tractor, PUP project, 3D printing and agBOT (ABE 106)4:45 – 5:30 pm Free time/Souvenir shopping (Campus Bookstore Area)

- 5:30 pm Board buses (East side of Purdue Memorial Union)
5:45 pm Buses depart Purdue University for Tippecanoe County Fairgrounds
6:00 pm Dinner at Tippecanoe County Fairgrounds, – *Home Economics Buildings, Fairgrounds*
7:00 pm Engineering Bowl and Robotic competition - *Home Economics Building, Tippecanoe County Fairgrounds*)
9:30 pm Return to hotel
11:30 pm In rooms, quiet

Tuesday, September 26

- 9:00 am – 12:00 pm Management Committee meeting

TOUR

BUS #1

- 8:00 am Board bus (La Quinta parking lot) for **Wind Farms**
8:15 am Depart for **Wind Farms**
9:00 – 10:45 am Presentation/Tour **Wind Farms**
11:30 am – 12:15 pm Lunch on your own (Tippecanoe Mall)
12:15 pm Board bus for **Subaru**
12:30 pm Bus departs for Subaru
1:00 – 2:30 pm Tour **Subaru**
2:45 pm Board bus Return to Hotel
3:00 pm Return to Hotel

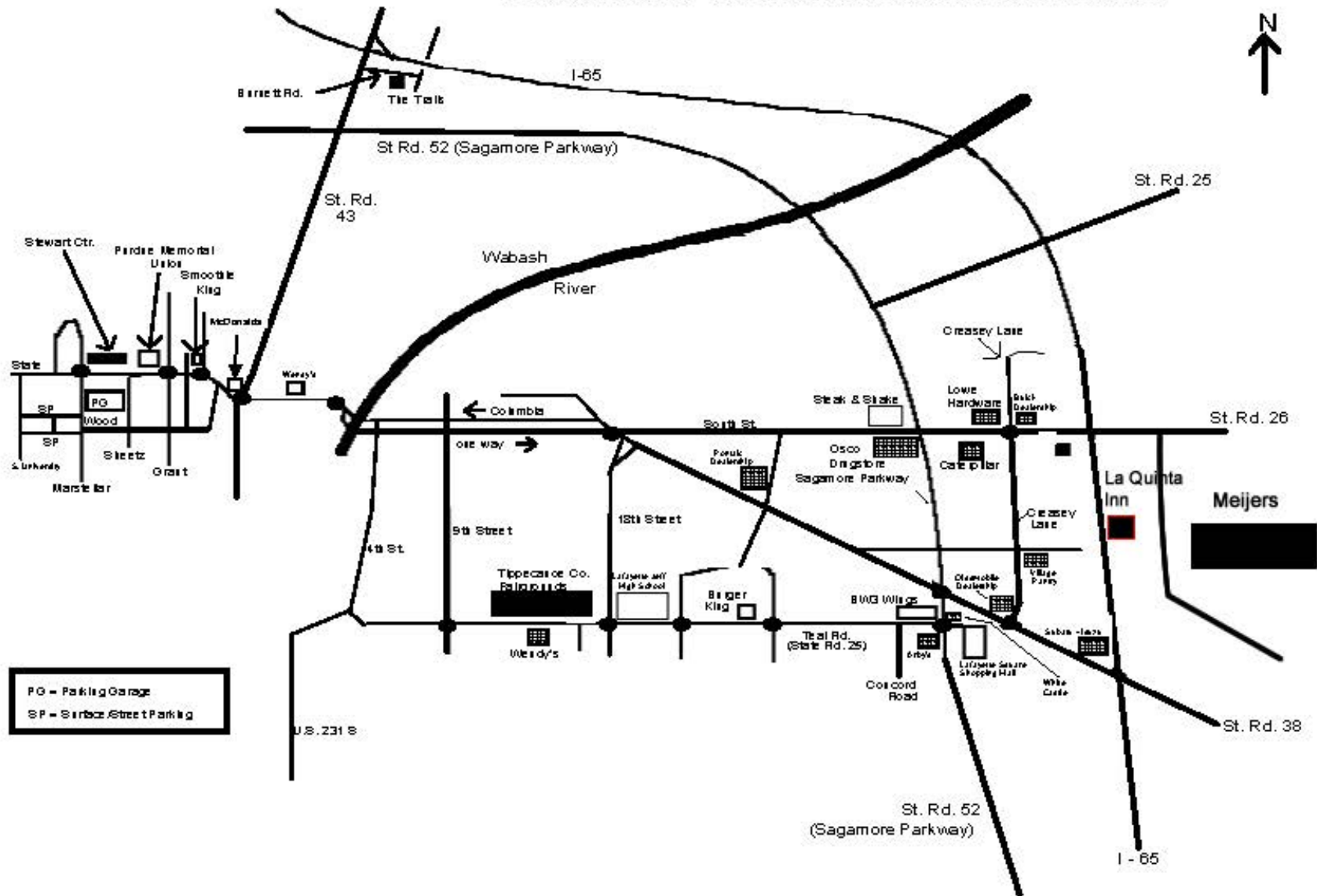
BUS #2

- 8:15 am Board bus (La Quinta parking lot) for **Subaru**
8:30 am Bus departs for **Subaru**
9:00 – 10:30 am Presentation/Tour **Subaru**
11:00 am - 12:00 pm Lunch on your own (Tippecanoe Mall)
12:00 pm Board bus for **Wind Farms**
12:15 Bus departs for **Wind farms**
1:00 – 2:45 pm Presentation/Tour **Wind farms**
3:30 pm Board bus Return to Hotel

- 5:30 – 8:30 pm Awards Banquet (The Trails - “Prophet Room”)
9:00 pm Have a safe trip home!

Awards: Awards will be presented to the top place participants in each of the competitive contests. Each participant will be presented a “Certificate of Recognition.”

LAFAYETTE/WEST LAFAYETTE AREA MAP



PG = Parking Garage
 SP = Surface Street Parking