

**NATIONAL 4-H
ENGINEERING CHALLENGE**

*Registration Information
and
Entry Forms*

October 4-6, 2009



**Purdue University
West Lafayette, Indiana**

National 4-H Engineering Challenge

October 4-6, 2009

IMPORTANT INFORMATION

1. **Entry forms should be completed and mailed by September 15, 2009** to Roger Tormoehlen, Purdue University, 615 W. State Street, West Lafayette, IN 47907-2053. A signed Code of Conduct is a part of each entry. Copies of entry forms are enclosed. Complete addresses and telephone numbers are essential.
2. Official state delegation lists are due to Roger Tormoehlen by **September 15**. Workshop reservations and assignment of duties will be made from this list.
3. Quality Inn and Suites, 4221 State Road 26 East, Lafayette, IN 47905, (765) 447-9460, has been designated headquarters for this event. **Each state is to make its own reservations directly with the hotel.** The room rate is \$60.00 plus applicable tax per room, one, two, three, or four persons per room with two double beds. Some roll away beds are available upon request. Reservations should be made before **September 1**. Reservations for late arrival (after 6:00 p.m.) must be “guaranteed” by credit card but may be canceled with 24-hour notice. **Delegations should arrive before 6:00 p.m., Sunday, October 4.**
4. When making hotel reservations, mention National 4-H Engineering Challenge and expected time of arrival. Please list room assignment groups for your delegation so the motel can assign rooms. Individual names should be included on reservations.
5. Educational workshops/tours have been arranged for Tuesday, October 6. All delegates are expected to participate (except staff representatives attending the Future Plans/Management Committee meeting).
6. The Management Committee has established registration fees of **\$70.00** for contestant and **\$90.00** for non-contestant. This fee is payable at registration.
7. The Annual Recognition Banquet will be held at The Trails at 6:00 p.m. on Tuesday, October 6. All participants, coaches, and other persons composing the delegation from each state are invited to attend.
8. Each 4-H participant should bring a raincoat. Appropriate dress for the banquet Tuesday evening would include shirt, tie and coat for the boys and dress or pantsuit for the girls.
9. Each state should arrange for health and accident insurance coverage of delegates in keeping with state policy for delegates participating in out-of-state events.

have a signed form to compete in the contest.

- Bicycle contestants *must* complete the “Waiver and Release From Liability” form that is included with the Bicycle Participant Entry Form. Contestants must have a signed form to tour the Major Taylor Velodrome.

NATIONAL 4-H ENGINEERING CHALLENGE ACCEPTANCE FORM

The National 4-H Engineering Challenge is planned, conducted, and supervised by Cooperative Extension Service. All 4-Hers are responsible for their conduct to Extension personnel and/or 4-H leaders supervising.

I hereby agree to attend the National 4-H Engineering Challenge as a/an _____ (state) representative. I will participate fully in all sessions and abide by the rules established for the Event. I realize I am a representative of many _____ (state) 4-Hers and will do my best in representing them.

Specific rules include:

- Curfew time is 11:30 p.m. All representatives are expected to be in their own room and quiet by that time. During other hours boys and girls may not be in the same room unless the curtains are left open.
- The National 4-H Engineering Challenge is "high" experience. The use of either alcohol or drugs is **NOT** permitted. Smoking is discouraged. Indiana law prohibits the consumption of alcohol by anyone under the age of 21.
- 4-Hers shall show respect for the property and facilities used during the activity or event and assume financial responsibility for any damages they cause.
- Delegates are to wear the official National 4-H Engineering Challenge name tags at all times. Official shirts provided by the National 4-H Engineering Challenge are to be worn during all competitive events. Not wearing the above is cause for disqualification.
- Representatives are responsible for participating in **ALL** planned activities.
- Representatives shall be considerate of other guests in the Quality Inn who are not a part of the National 4-H Engineering Challenge.
- Representatives are responsible to all chaperones.

Further, delegates should have respect and courtesy for programs and speakers in progress. This strongly suggests that delegates should **REMAIN** for the entire program and show courtesy when taking flash photos during contests and programs.

I have read these standards of conduct and agree to conduct myself accordingly. If I break this agreement or my conduct is not satisfactory to the event chaperones, I understand that I will be sent home early and will be asked to return all funds expended upon my behalf during this event.

SIGNED: _____
National 4-H Engineering Challenge Representative

Address and phone number where Parent or Guardian may be reached:

I have read the above standards for the National 4-H Engineering Challenge and accept them as being in the best interest of my child and the group.

SIGNED: _____
Parent/Guardian Date

NATIONAL 4-H ENGINEERING CHALLENGE

October 4-6, 2009

Tentative Schedule

Sunday, October 4

5:00 - 6:00 p.m.	Registration (Tippecanoe County Fairgrounds) Contest setup at County Fairgrounds (<i>Indiana 4-H volunteers will do the setup under the leadership and guidance of the contest chairs and co-chairs</i>)
6:00	Dinner at the Tippecanoe County Fairgrounds
6:45	Welcome, Introductions, General Orientation
8:30	Contest Orientation for youth
9:00	Return to hotel
11:30	In rooms, quiet

Monday, October 5

7:15 a.m.	<i>Key adults leave for fairgrounds to finalize setup</i>
7:45	Aerospace contestants board vans to travel to Purdue
8:15	Written exams begin (<i>Tippecanoe County Fairgrounds</i>)
9:00	Skill Events begin
12:00 noon	Lunch on your own
1:00	Educational workshops: Bicycle — <i>Board vans to travel to Indianapolis for Velodrome program.</i> Electric — <i>Board vans to travel to Purdue.</i> Automotive, Small Engine, Lawn Tractor, Ag Tractor, Computer and Welding — <i>Board buses to travel to Purdue University</i>
5:00	Return to fairgrounds
5:30	Dinner (<i>Tippecanoe County Fairgrounds</i>)
6:30	Engineering Bowl (<i>Tippecanoe County Fairgrounds</i>)
9:00	Refreshments
10:00	Return to hotel
11:30	In rooms, quiet

Tuesday, October 6

9:00 a.m.	Board buses for local educational tours/workshops
9:00	Adults—Management Committee meeting
11:30	Lunch
12:30 p.m.	Board buses to travel for afternoon educational tours/workshops
3:30 - 4:00	Return to hotel
5:30 - 8:30	Awards Banquet (The Trails) (<i>Semi-final and final rounds of Engineering Bowl</i>)
11:30	In rooms, quiet

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

National 4-H Engineering Challenge

Official State Delegation Listing

State of _____

The following named people will constitute our state delegation to the National 4-H Engineering Challenge, October 4-6, 2009, West Lafayette, Indiana. (Please include contestants, coaches, parents, Extension staff, and others representing your state). In the event names of delegates are not known by September 15, please notify us of the number you expect to attend the workshops and banquet. The head chaperone is to pay registration fees for the entire delegation.

PLACE "X" BY PERSONS PARTICIPATING IN WORKSHOPS AND BANQUET

CONTESTANTS NAMES	ADDRESSES	WORKSHOP	BANQUET
1. _____ (Aerospace)	_____ _____ Telephone: _____	_____	_____
2. _____ (Aerospace)	_____ _____ Telephone: _____	_____	_____
3. _____ (Bicycle)	_____ _____ Telephone: _____	_____	_____
4. _____ (Computer)	_____ _____ Telephone: _____	_____	_____
5. _____ (Electric/Energy)	_____ _____ Telephone: _____	_____	_____
6. _____ (Lawn Tractor)	_____ _____ Telephone: _____	_____	_____
7. _____ (Small Engines)	_____ _____ Telephone: _____	_____	_____
8. _____ (Tractor)	_____ _____ Telephone: _____	_____	_____
9. _____ (Welding)	_____ _____ Telephone: _____	_____	_____

OTHER NAMES/TITLES	MAILING ADDRESS	WORKSHOP	BANQUET
10. _____ _____ (Head Chaperone)	_____ _____ Telephone: _____ _____ (Event)	_____	_____
11. _____ _____ (Title)	_____ _____ Telephone: _____ _____ (Event)	_____	_____
12. _____ _____ (Title)	_____ _____ Telephone: _____ _____ (Event)	_____	_____
13. _____ _____ (Title)	_____ _____ Telephone: _____ _____ (Event)	_____	_____
14. _____ _____ (Title)	_____ _____ Telephone: _____ _____ (Event)	_____	_____
15. _____ _____ (Title)	_____ _____ Telephone: _____ _____ (Event)	_____	_____
16. _____ _____ (Title)	_____ _____ Telephone: _____ _____ (Event)	_____	_____
17. _____ _____ (Title)	_____ _____ Telephone: _____ _____ (Event)	_____	_____

Attach additional sheet if more space is needed.

FINANCIAL SUMMARY

REGISTRATION FEES

Contestants — \$70.00 x _____ (number) = \$ _____
 Non-contestants — \$90.00 x _____ (number) = \$ _____

SUBMITTED BY: _____ **TOTAL DUE \$** _____

Checks should be made payable to **PURDUE UNIVERSITY**. Please pay upon arrival.

Return this form to Roger Tormoehlen, Youth Development and Agricultural Education Dept., Purdue University, 615 W. State Street., West Lafayette, IN 47907-2053 by **September 15, 2009**.

**4-H AEROSPACE CHALLENGE ENTRY FORM
NATIONAL 4-H ENGINEERING CHALLENGE**

State: _____

Date: _____

Individual or Team Member 1:

Name: _____

Address: _____

(City) _____ (State) _____ (Zip)

County _____ Age as of 1/1: _____

Please describe your experience with model rocketry in the space provided below:

Team Member 2:

Name: _____

Address: _____

(City) _____ (State) _____ (Zip)

County: _____

Please describe your experience with model rocketry in the space provided below:

Teacher, Extension Agent or Volunteer Leader Authorization/Confirmation:

(Signature)

(Date)

State of _____

**BICYCLE PARTICIPANT ENTRY FORM
NATIONAL 4-H ENGINEERING CHALLENGE**

Name of Contestant: _____ Age: _____

Address: _____ County: _____

City: _____ State: _____ Zip: _____

Telephone Number: _____ Email address: _____

Parent's Name _____

Grade in School (Occupation if out of school): _____

Years in 4-H: _____ Years in Bicycle Project: _____

Number of bicycles used at home: _____

This is to certify that I:

1. Am currently enrolled in the 4-H Bicycle Project.
2. Have passed my 14th but not my 19th birthday as of January 1 of this year.

Contestant's Signature: _____ Date: _____

Name of Coach: _____ Title: _____

Coach's Address: _____

City: _____ State: _____ Zip: _____

RULES OF THE TRACK FOR THE MAJOR TAYLOR VELODROME

1. The Management is not responsible for property damage or personal injury.
2. Riding and Skating are permitted only during designated hours.
3. Helmets are required at all times.
4. All riders/skaters will proceed in a counterclockwise direction around the track.
5. Riders/skaters will conduct themselves in a proper fashion, and management reserves the right to ask those who act inappropriately to leave the premises.
6. Laws of the State of Indiana, ordinances of the City of Indianapolis, and regulations of the Indiana Bicycle Coalition, Inc. and the Department of Parks and Recreation will be strictly enforced.
7. No one under 8 years of age is permitted on the bicycle track. Riders of the 8-14 age group must demonstrate competent bicycle handling skills and maturity or be a participant in a Velodrome program before authorization is given to ride.
8. All users of the track must have the following waiver completed before taking to the track and if under 18 years of age, the waiver must be signed by a parent or legal guardian. This waiver is valid for 2009 only.
9. No riding or skating is permitted when the track surface is wet.
10. No skateboards are permitted. Skaters are not allowed on the banked track.

2009 WAIVER AND RELEASE FROM LIABILITY AND INDEMNIFICATION

I, _____ do hereby waive, release from liability, hold harmless and discharge the said Major Taylor Velodrome, Indiana Bicycle Coalition, Inc., the City of Indianapolis and the Department of Parks and Recreation and their respective agents, officers and employees from all claims, demands, damages, claims for relief on account of any and all injuries which may exist or which may hereinafter from my present or future participation in activities at the Major Taylor Velodrome, even if injury results from negligence of the said Indiana Bicycle Coalition, Inc., Department of Parks and Recreation and the Consolidated City of Indianapolis, Indiana or their respective agents, officers and employees.

I do further agree to protect the said Major Taylor Velodrome, Indiana Bicycle Coalition, Inc., Department of Parks and Recreation and/or the Consolidated City of Indianapolis, Indiana and their respective agents, officers and employees from any damages in, by way of claim, demand or judgment and agree to reimburse, said Indiana Bicycle Coalition, Inc., Department and City for any damages or cost incurred.

I also hereby waive and forever release any and all claims for personal injury property damage and/or loss of services which I may now have or have in the future, against any sponsor of and/or programs held at or in conjunction with the Major Taylor Velodrome, Indiana, Indiana, in which I am participant.

I understand the Major Taylor Velodrome does not guarantee the adequacy of the helmets provided and I am responsible for my own choice of helmet and assume any and all risks of which could result from inadequate head protection.

I understand I hereby grant to the Major Taylor Velodrome all exhibition rights for participation in events. Included without limitation, television, radio, film, print and exhibition rights, together with the right to use such rights as the Major Taylor Velodrome sees fit to perpetuity. Such rights include the right to use my name, voice, or likeness in programs and for the purposes of trade, but not in a manner which constitutes an endorsement of any product or service.

I HAVE READ THIS DOCUMENT AND UNDERSTAND IT IS A RELEASE OF ALL CLAIMS _____ (INITIAL)

Rider's Printed Name

Street Address

City, State, Zip Code

Telephone Number

Rider's Birth Date

Age

I affirm, under penalties of perjury I am 18 years of age or older and executed the above foregoing WAIVER RELEASE OF LIABILITY, and that such are true and correct to the best of my knowledge and belief on this the ____ day of _____, 2009.

Signature of Rider/Skater

Signature Parent/Legal Guardian if under 18

State of _____

**COMPUTER PARTICIPANT ENTRY FORM
NATIONAL 4-H ENGINEERING CHALLENGE**

Name of Contestant: _____ Age: _____

Address: _____ County: _____

City: _____ State: _____ Zip: _____

Telephone Number: _____ Email address: _____

Parent's Name _____

Title of Illustrated Talk: _____

Grade in School (Occupation if out of school): _____

Years in 4-H: _____ Years in Computer Project: _____

Number of computers used at home: _____

This is to certify that I:

1. Am currently enrolled in the 4-H Computer Project.
2. Have passed my 14th but not my 19th birthday as of January 1 of this year.
3. Will provide equipment and materials necessary for participation.

Contestant's Signature: _____ Date: _____

Name of Coach: _____ Title: _____

Coach's Address: _____

City: _____ State: _____ Zip: _____

State of _____

**ELECTRIC/ENERGY PARTICIPANT ENTRY FORM
NATIONAL 4-H ENGINEERING CHALLENGE**

Name of Contestant: _____ Age: _____

Address: _____ County: _____

City: _____ State: _____ Zip: _____

Telephone Number: _____ Email address: _____

Parent's Name _____

Title of Electric/Energy Demonstration: _____

Grade in School (Occupation if out of school): _____

Years in 4-H: _____ Years in Electric/Energy Project: _____

This is to certify that I:

1. Am currently enrolled in the 4-H Electric/Energy Project.
2. Have passed my 14th but not my 19th birthday as of January 1 of this year.
3. Have not competed in a regional 4-H Electric/Energy Contest in previous years.

Contestant's Signature: _____ Date: _____

Name of Coach: _____ Title: _____

Coach's Address: _____

City: _____ State: _____ Zip: _____

State of _____

**LAWN TRACTOR PARTICIPANT ENTRY FORM
NATIONAL 4-H ENGINEERING CHALLENGE**

Name of Contestant: _____ Age: _____

Address: _____ County: _____

City: _____ State: _____ Zip: _____

Telephone Number: _____ Email address: _____

Parent's Name _____

Grade in School (Occupation if out of school): _____

Years in 4-H: _____ Years in Lawn Tractor Project: _____ Years in 4-H Learn-to-Earn Program: _____

Make and number of lawn tractors (less than 20 hp.) or riding lawn mowers used: _____

This is to certify that I:

1. Am currently enrolled in the 4-H Small Engines and/or Learn-to-Earn Project.
2. Have passed my 14th but not my 19th birthday as of January 1 of this year.
3. Have not competed in a regional 4-H Lawn Tractor Contest in previous years.

Contestant's Signature: _____ Date: _____

Name of Coach: _____ Title: _____

Coach's Address: _____

City: _____ State: _____ Zip: _____

State of _____

**SMALL ENGINES PARTICIPANT ENTRY FORM
NATIONAL 4-H ENGINEERING CHALLENGE**

Name of Contestant: _____ Age: _____

Address: _____ County: _____

City: _____ State: _____ Zip: _____

Telephone Number: _____ Email address: _____

Parent's Name _____

Title of Small Engines Demonstration: _____

Grade in School (Occupation if out of school): _____

Years in 4-H: _____ Years in Small Engines Project: _____

Number of small engines used at home: _____

This is to certify that I:

1. Am currently enrolled in the 4-H Small Engines Project.
2. Have passed my 14th but not my 19th birthday as of January 1 of this year.
3. Have not competed in a regional 4-H Small Engines Contest in previous years.

Contestant's Signature: _____ Date: _____

Name of Coach: _____ Title: _____

Coach's Address: _____

City: _____ State: _____ Zip: _____

State of _____

**TRACTOR PARTICIPANT ENTRY FORM
NATIONAL 4-H ENGINEERING CHALLENGE**

Name of Contestant: _____ Age: _____

Address: _____ County: _____

City: _____ State: _____ Zip: _____

Telephone Number: _____ Email address: _____

Parent's Name _____

First choice of new tractor: (Model and Year) _____

Second choice of new tractor: (Model and Year) _____

Grade in School (Occupation if out of school): _____

Years in 4-H: _____ Years in Tractor Project: _____

Size and Type of Farm: _____

Make and number of tractors on farm: _____

This is to certify that I:

1. Am currently enrolled in the 4-H Tractor Project.
2. Have passed my 14th but not my 19th birthday as of January 1 of this year.
3. Have not competed in a regional 4-H Tractor Operator Contest in previous years.

Contestant's Signature: _____ Date: _____

Name of Coach: _____ Title: _____

Coach's Address: _____

City: _____ State: _____ Zip: _____

State of _____

**ARC WELDING PARTICIPANT ENTRY FORM
NATIONAL 4-H ENGINEERING CHALLENGE**

Name of Contestant: _____ Age: _____

Address: _____ County: _____

City: _____ State: _____ Zip: _____

Telephone Number: _____ Email address: _____

Parent's Name _____

Grade in School (Occupation if out of school): _____

Years in 4-H: _____

This is to certify that I:

Have passed my 14th but not my 19th birthday as of January 1 of this year.

Contestant's Signature: _____ Date: _____

Name of Coach: _____ Title: _____

Coach's Address: _____

City: _____ State: _____ Zip: _____