Connecticut 4-H Adventures in STEM  
Saturday, November 8, 2014  
University of Connecticut, Storrs Campus  
Registration Form  

Conference is open to youth ages 12-18  

Please return registration form and code of conduct by Friday, October 24, 2014 to Nancy Wilhelm, State 4-H Office, 1376 Storrs Road, Storrs, CT 06269-4134. Include $20 registration fee for each 4-H participant, non 4-H members pay $25. Make checks payable to UConn. If you have any questions, please contact Nancy Wilhelm at 860-486-4127 or nancy.wilhelm@uconn.edu.

Name ____________________________________________  
Street ____________________________________________  
Town ____________________________________________ State ___________ Zip ________________  
Telephone _______________________________ Date of Birth ________________________________  
Participant Email Address ________________________ Parent Email Address ____________________  

T-Shirt Size (please circle one): Adult   S   M   L   XL   XXL  ____4-H Member _______Non 4-H Member  

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Adults are welcome to accompany youth for the day. If you are an attending adult please remember that this is a youth oriented program. Parents are asked to observe rather than actively participate in workshops. Attending adults must also register and pay the registration fee which covers conference supplies and food for the day. If a parent or guardian will not be accompanying a youth participant to 4-H Adventures in STEM, the youth participant must submit a 4-H member/volunteer health form at registration that day. If another adult is chaperoning, they must keep the health form for each participating youth in their possession. The health form must be signed by the youth’s parent or guardian. Health forms are available at www.4-H.uconn.edu under forms.

Lunch will be provided in a University Dining Hall which offers a wide variety of choices. Meal tickets will be provided at registration. Lunch is included in the registration fee. Make sure to have breakfast before arriving for the program as there will not be opportunities to eat before lunch at 12:00 p.m.

List below your 1st and 2nd choices for workshops you would like to attend

See attached sheet for workshop descriptions

If you have any special dietary needs, or if special accommodations are needed, please indicate in writing below. Requests for special accommodations should be submitted at least two weeks prior to the event.
As a youth participating in a 4-H program, I agree to the following code of conduct and I will:

- Participate fully in the 4-H program.
- Be responsible for my own behavior and uphold high standards for the group.
- Use language and manners that are respectful and appropriate for a 4-H activity.
- Support and abide by the adult advisors’ leadership.
- Follow all scheduled times for program or club events.
- Display a positive attitude and good sportsmanship.
- Respect others.
- Act as a cooperative team member.
- Not use alcoholic beverages, illegal drugs, fireworks or tobacco while participating in any 4-H activity.
- Not carry or use any weapons.
- Not leave the assigned area without permission from the adult chaperone or leader.
- If involved with 4-H project animals, I understand they are shown at my risk.

I,_____________________________________________________ have read and understand the Code of Conduct and promise to follow the code as stated. I agree to abide by the Connecticut 4-H Program Code of Conduct as stated above. I understand that some of the activities in which I may choose to be involved may have inherent risks associated with them. I accept responsibility for my own actions and shall indemnify the 4-H organization and its volunteers against legal or other proceedings in regard thereto.

Youth Signature _______________________________ Date ____________

Parent/Guardian Statement
I have read the above Code of Conduct. I realize that I am personally responsible for my son/daughter/ward’s behavior while he/she is at any sanctioned 4-H Event or Program. I expect that if he/she breaks the Code of Conduct or becomes disruptive and the adult leaders find it necessary to dismiss him/her, that I am responsible for his/her transportation home. In the event my son/daughter/ward is detained by any legal authority, I expressly give my permission for a 4-H chaperone to remain with my son/daughter/ward until I can be present. I agree to use my best efforts to arrive as soon as possible upon being notified of such detainment. I understand that some activities and events may have inherent risks to my child by participating, and that 4-H project animals are shown at the risk of the 4-H member. Any damages to persons or property are the legal and financial responsibility of the 4-H member and their family. I shall indemnify the 4-H organization and its volunteers against legal or other proceedings in regard thereto.

I will allow the use of any photos/audio/video taken of my child/ward to be used in future promotional activities for the University of Connecticut 4-H program. Checking no to this option does not exclude anyone from membership or participation in any Connecticut 4-H programs

- Yes, I give permission for my child/ward’s photo/audio/video to be taken and/or used
- No, I do not give permission for my child/ward’s photo/audio/video to be taken and/or used

4-H members age 18 and over may check photo permission without parent signature.

Parent/Guardian Signature _______________________________ Date ____________
CT 4-H Adventures in STEM
Workshop Descriptions and Schedule

8:30-9:00 am – Registration, W. B. Young Building, Room 100

9:00 am - Announcements

Session A (9:30-10:30 am)

Through a New Lens: Taking Creative Photos with iPads – Explore photography using an iPad instead of a camera. Go beyond taking photos to creating artistic masterpieces using interesting camera options and cool software. You’ll learn some new techniques and take home a copy of your favorite photo!

“Green Genes” 4-H Genetics – Participants will explore genetics and its function in heredity. Learn key terms, DNA’s importance and about maintaining genetic diversity through heritage breeds and heirloom crops.

Marble Rollercoaster Challenge – Participants will work in small groups to design marble rollercoasters to explore physics, energy and engineering construction. Teams will explore potential vs. kinetic energy, friction, velocity and effects of gravity on their unique designs while having fun building imaginative coasters. Challenges will include making the biggest loop, longest coaster and other engineering concepts.

Rockets to the Rescue – Explore the field of aerospace engineering with this year’s 4-H National Youth Science Day experiment. Participants will design and build an aerodynamic food transportation devise that can deliver a payload of nutritious food to disaster victims.

Beginnings in Chemistry – This two-hour workshop will introduce participants to the world of chemistry and how it affects daily life. Demonstrations will include making liquid nitrogen ice cream and elephant toothpaste.

Topo Maps and Using a Level for Surveys – This two-hour workshop will cover the basic understanding of topo map reading and development, hands-on training and use of a traditional and electronic self-leveling rotary laser level. Students will be shown the correct methods of hands-on level setup, basic equipment used, and recording data for construction drawings and topo map lines.

Session B (10:45-11:45am)

3D Printing – Participants will be challenged to build something extremely difficult and in fact impossible. But how can we build such intricate designs? 3D printing. The additive manufacturing process allows for intricate designs that would otherwise be impossible. An additional hands-on activity relating to a real-world application of 3D printing will also be provided. Join the UConn Engineering Ambassadors as we explore past processes and the colorful future of 3D printing.

Through a Lens: Taking Creative Photos with iPads – See Session A description
4-H and the Maker Movement – Participants will learn about wiring a house and create a multi-functional switch while exploring electricity and an introduction to electronics.

Marble Rollercoaster Challenge – See Session A description

Beginnings in Chemistry Continued – This is a two-hour workshop beginning in Session A. You must register for this during Session A.

Topo Maps and Using a Level for Surveys Continued - This is a two-hour workshop beginning in Session A. You must register for this during Session A.

Lunch (12:00 – 12:45 pm) – University Dining Hall to be determined

Session C (1:00-2:00)

Wired for Wind – This workshop will explore how to engineer renewable energy technologies and harness the power of wind. Participants will design, build and use two different wind turbine models to generate energy.

3D Printing – See Session A description

Through a Lens: Taking Creative Photos with iPads – See Session A description

“Green Genes” 4-H Genetics – See Session A description

Marble Rollercoaster Challenge – See Session A description