



## STEM Conference

Algonquin Regional High School, Northborough, MA

**Saturday, March 26th**

**8:30 a.m. – 1:30 p.m.**

The Northboro Junior Woman's Club will be holding its ninth "Women in Science, Technology, Engineering and Math (STEM) Conference" to give middle school girls the opportunity to explore careers in science and math. After an opening presentation, the girls will be able to attend four 40 minute interactive hands-on career workshops. Presenters will represent fields such as Forensic Chemistry, Dentistry, Architecture, DNA Extraction, Engineering, Medical Profession and Veterinary Medicine among others. The presenters will explain what they do in their occupation, share different tips on courses of study & ways to train for their profession, and provide hands-on exploration/activities.

A luncheon will follow the workshops and offer an opportunity for the students and presenters to continue discussions in a more informal setting.

***Registration forms are available from the school and need to be postmarked or e-mailed by March 18, 2016. Enrollment is limited to the first 175 girls. Please note that choice of the workshops is based on a first come first serve basis. This program has historically been very popular and always fills to capacity.***

Northboro Junior Woman's Club presents  
**STEM Conference**

Saturday, March 26, 2016

8:30am -1:30pm

Algonquin Regional High School, 79 Bartlett Street, Northborough 01532

**Registration Form**

Please clearly PRINT all information listed below

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Parent /Guardian Phone Number: \_\_\_\_\_

Parent/Guardian E-mail: \_\_\_\_\_

Emergency Contact Name: \_\_\_\_\_ Phone Number \_\_\_\_\_

Name of School: \_\_\_\_\_ Grade: \_\_\_\_\_



**Please clearly print all information listed below:**

Do you have any allergies (latex, food, environmental, etc.?)

\_\_\_\_\_

How did you find out about the conference? \_\_\_\_\_

**Parents/Guardian:**

Do you give permission for your daughter to be photographed or videotaped? (The media may be there.)

Yes  No

Parent's signature \_\_\_\_\_

Date \_\_\_\_\_

\*Registration forms that do not have a guardian/ parent signature and are not fully completed will not be accepted.

Registration forms can be submitted via email or US postal mail. Registration forms may emailed to

[STEM@northborojuniors.org](mailto:STEM@northborojuniors.org)

If you choose to mail the forms, please send them to:

NJWC

5 Charina Road

Northborough, MA 01532

Attn: Sue Young

**All forms need to be received by March 18, 2016.**

A letter of confirmation will be emailed to you shortly after your registration form is received. Please call Sue at 774-249-2880 or Louise at 774-258-1507(evenings) with any questions.

## Workshops:

Attendees Name (please print): \_\_\_\_\_

Please number the workshops 1 through 14 according to your interest in attending each. (1 for **first** choice, 2 for **second** choice, 3 for **third** choice, 4 for **fourth** choice, etc.) Workshops will be filled in the order in which registration forms are received. Please number **all** workshops. We will try our best to match you with your top selections.

\_\_\_\_\_ **Architecture** - If you were to explore a day in the life of an architect, it could look radically different from one day to the next. Learn more about the broad array of tasks, projects types, positions, and personalities in this challenging profession. Session will include discussion on technology, education path, salary ranges, and a mock design project.

\_\_\_\_\_ **Chiropractor** - The biochemistry of Super Nutrition. Discuss the nutritional content of different foods, sweeteners, supplements and superfoods. Learn to make smoothies that are not only delicious but powerful for your brain and body

\_\_\_\_\_ **Conservation Agent** - Beyond Going Green - This workshop will include an overview of some the latest and greatest methods for saving the planet, including vermicomposting – a highly efficient way to dispose of household waste with worms. Using data we will collect from experiments, we will build vermicomposter units in the workshop.

\_\_\_\_\_ **Dentist/Orthodontist** - Exploring the realms of dentistry Learn about becoming a dentist/Orthodontist

\_\_\_\_\_ **Environmental Health & Safety Engineering** – Is the work environment safe? Learn about the assessment of worksites for hazard prevention & control; emergency response for hazardous situations; health & safety education and training.

\_\_\_\_\_ **Engineer** –zip lining is a fun and exhilarating adventure that lets you ride through the air while attached to cable lines, in the safety of a harness. Join us for this fun workshop exploring zip line physics and compete with your friends by building the most exciting ride!

\_\_\_\_\_ **Forensic Chemistry** - The application of science to the law; provide assistance in criminal investigations by processing crime scenes and analyzing evidence.

\_\_\_\_\_ **Geotechnical/Water Resource Engineer** – Two Dam Town - Did you know that dams come in four major types? Explore your options for providing water to Two Dam Town, USA. You and a partner will design and build two dams to see which is best at creating a reservoir.

\_\_\_\_\_ **Occupational Therapy** – How does an occupational therapist do their job? Work with the tools that are used in evaluations of patients.

\_\_\_\_\_ **Material Scientist** – material scientists study how small things can effect larger things. Learn how molecules link together as you make a rubber ball.

\_\_\_\_\_ **Nursing** – What are the career opportunities in nursing? Learn about neo-nursing and caring for babies including how to swaddle (baby burritos) and CPR on an electronic mannequin

\_\_\_\_\_ **Research Scientist** –Teenage Mutant Ninja worms! Through genetic mutations you will see worms with mutant body size, shape and movement.

\_\_\_\_\_ **Science Teacher** – Learn about what is involved in teaching science with a lab investigation of DNA finger printing on Gel Electrophoresis.

\_\_\_\_\_ **Surgeon** – What is it like to be a surgeon and learn some basic suturing techniques.

\_\_\_\_\_ **Veterinary Medicine** – Experience a day in the life of a veterinarian including diagnosis and treatment of an animal.