



Women in STEM Conference

Algonquin Regional High School, Northborough, MA

Saturday, March 25th, 2017

8:30 a.m. – 1:30 p.m.

The Northboro Junior Woman's Club will be holding its tenth "Women in Science, Technology, Engineering and Math (STEM) Conference" to give middle school girls the opportunity to explore careers in science, technology, engineering 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, Teaching, Engineering, Biology and Medical Professions 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 17, 2017. Enrollment is limited to the first 180 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
Women in STEM Conference

Saturday, March 25, 2017

8:30am -1:30pm

Algonquin Regional High School, 79 Bartlett Street, Northborough 01532

Registration Form

Please clearly and legibly 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 and legibly 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

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 17, 2017.

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** – Learn about how water pollution policies affect local water and use an interactive water management simulation model to study subsurface water flow and different ways contaminants enter groundwater

_____ **Dentist/Orthodontist** - Exploring the realms of dentistry. Learn about becoming a Dentist/Orthodontist.

_____ **Environmental Health & Safety Engineering** – Learn about the assessment of worksites for hazard prevention & control; emergency response for hazardous situations; health & safety education and training.

_____ **Computer & Electrical Engineer** – Learn about virtual reality in programming games

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

_____ **Research Scientist** – Help Friedrich Miescher with his discovery of DNA! Students will learn the scientific method and form their own hypotheses while isolating DNA to assist Dr. Miescher with his famous experiment

_____ **Occupational Therapy** – Learn about a career in occupational therapy and work with the tools that are used in evaluations of patients.

_____ **Chromatography/Chemistry** – Learn about chromatography and experience how college students learn about separating and identifying chemicals based on their properties then use those skills to create something beautiful.

_____ **Nursing** – Learn about the many career choices in nursing that help people be healthy. See if you can choose the best foods to prevent diabetes. But first, let's see how well you wash your hands --- no fooling anyone when we turn on the UV light

_____ **Research Scientist** – Hands on workshop to learn how to extract DNA from strawberries

_____ **Science Teacher** – Discover what is involved in teaching science with a lab investigation of DNA finger printing on Gel Electrophoresis

_____ **Surgeon** – Discover what it takes to become a surgeon and learn some basic suturing techniques.

_____ **STEM Educators** – A hands on session with a STEM director and Tech Ed Specialist where you will design and race your own Bristlebot robot