

# **2016 VIENNA INTERNATIONAL SCIENCE AND ENGINEERING FAIR REQUIREMENTS AND RULES**

## **Who Can Participate in the Fair?**

All Middle School and High School students from the international schools listed below. Students' projects will be divided into a Junior and a Senior division as shown below. Each division will be judged separately. If a project is a team entry, all members of the team should qualify for the same division by being from the same school and the same grade. The divisions are organized by class or grade level as follows:

<b>School:</b>	<b>Senior Division:</b>	<b>Junior Division:</b>
American International. School	Grades 9, 10, 11, 12	Grades 6, 7, 8
Danube International School	Grades 9, 10, 11, 12	Grades 6, 7, 8
Lycée Français de Vienne	4 <sup>e</sup> , 5 <sup>e</sup> , 6 <sup>e</sup>	T, 1 <sup>e</sup> , 2 <sup>e</sup> , 3 <sup>e</sup>
Russian School of Vienna	Years 9, 10, 11	Years 6, 7, 8
International Christian School of Vienna	Grades 9, 10, 11, 12	Grades 6, 7, 8
Vienna International School	Grades 9, 10, 11, 12	Grades 6, 7, 8
Amadeus International School	N/A	?
QSI International of Bratislava	?	?
British International School, Bratislava	?	?
Riverside School, Prague	?	?
The American College of Sofia	?	?

## **Categories of Projects:**

The theme of the 2016 Science and Engineering Fair will be "*To Infinity and Beyond ∞ Science and Engineering Solutions for Transportation*" as the Fair was originally planned to be on 9 April. April 9 marks the anniversaries of the birth of several scientists and engineers who were involved in transport and of several significant events in the history of transport. Transport, its development, its impact and most importantly the benefits deriving from it involves almost every branch of mathematics, science and engineering.

Projects entered in the Fair will be divided into categories in each division as listed below. Students should specify the category of their project on their registration form. However, the Science Fair officials may revise the project categories or change the category of a project depending on project content or the number of entries received in a category.

<b>Senior Division:</b>		<b>Junior Division:</b>	
Computer Science and Mathematics	Environmental Science	Computer Science and Mathematics	Life Science Animals
Biological Science	Engineering and Technology	Earth and Space Science	Life Science Plants
Chemistry and Physics	Health and Human Behaviour	Environmental Science	Machines and Technology
Earth and Space Science		Health Science	Physical Principles
		Human Behaviour	

## **Fair Schedule**

15 January 2016	Registration open
4 March 2016	Deadline for Changes to Registration Forms and Abstracts
11 March 2016	(1700 – 2000) Project Display Set-up

12 March 2016

(0830 - 1000) Judging of Projects without students  
(1000 – 1200) Discussion of Projects with Judges  
(1200 – 1400) Lunch and special presentations for students  
(1400 - 1600) Presentation of Fair Projects to the Public (Additional discussions with Judges may occur during this period.)

17 March 2016

(1900 - 2130) Awards Banquet at the Lycée Français de Vienne

### **Registration:**

Students planning to enter the Fair **MUST** complete and submit an electronic Registration Form *with an Abstract in English* on or before the registration due date (4 March 2016). One entry should be submitted for each project but each project may have up to **three** team members. A student may enter only one (1) project or a student can be a team member of only one (1) project. All students who register by the deadline and participate in the Fair will receive a free Science Fair souvenir, be invited to the Awards Banquet and be eligible for additional awards and prizes. Registration changes should be made by submitting a revised Registration Form (check the line - Revised Registration Form). No changes will be accepted after the change deadline date.

### **The Project:**

The project must be the work of the team members alone. Participants can obtain guidance from others, but the participants must do the work themselves. The repetition of a previous year's project is not permitted; however, extension of work done for a previous Fair may be accepted if the previous year's report is identified and displayed separately at the Fair. Projects that are extensions of previous Science Fair work must be noted on the Registration Form.

### **Special Restrictions:**

Projects involving human subjects, nonhuman vertebrates, pathogenic agents, controlled substances, recombinant DNA or human/animal tissue must have this fact noted on the registration form and students will be required to supply further information about their project in advance of the fair, in order to ensure that the project adheres to the rules and pertinent laws. All such projects must be approved by the INMM Science Fair Project Review Committee.

No live animals, preserved vertebrate animals or parts, including embryos, may be exhibited at the Fair. No photographs or drawings of surgical techniques, dissection, autopsies or other laboratory techniques depicting vertebrate animals in other than normal conditions may be displayed. No human parts can be exhibited except hair, teeth or nails. No projects involving illegal or controlled substances are allowed.

### **Report Requirements:**

*All project displays must be accompanied by a report.*

The text of the report should be less than 10,000 words in length. The report should be written in English. (Reports from the French, Japanese or Russian Schools may be submitted in French, Japanese or Russian respectively as long as they are accompanied by a summary in English.) The report should include a title page, table of contents, abstract, description of activities, results and conclusions, and a bibliography. Other documentation for the project (notebooks, photographs, working papers) may be displayed but is not required.

### **Project Displays:**

- **Set Up and Disassembly:** All projects entered in the Fair must include a display. The display must be set up between 17:00 and 20:00 hrs on the Friday evening before the Fair (11 March 2016). It must be suitable for placing on a table or free standing on the floor. If it includes a display board, the board must be free standing (without outside support). The display must be dismantled and removed by 17:00 hrs on the day of the Fair. **Please note that display boards will not be provided by the INMM or the Lycée.**

- **Size:** The display size is normally limited to 76 cm deep, front to back, 122 cm wide, side to side, and 274 cm high, bottom to top. The Registration must include an indication of whether the project will be displayed on a table or on the floor. Exceptions to the size requirements may be made if the need for additional space is justified on Registration.
- **Electrical Power:** If power is required for the display, it must be noted on the Registration Form. Normally, 220 volt single phase (50 Hz) power will be available. Each exhibit can use a maximum of 500 watts. All displays which require electrical power must include a 3-meter long grounded extension cord with multiple sockets supplied by the entrant.
- **Safety:** Anything that could be hazardous for public display is prohibited. (Displays could include photographs if the project activities involve any of these.)

Displays must not include:

- \* live disease causing organisms; microbial cultures, fungi, or moulds (live or dead), or unknown specimens;
- \* syringes, and similar devices;
- \* flames;
- \* highly flammable materials in any form;
- \* dangerous chemicals including caustics and acids;
- \* tanks containing combustible gases;
- \* anything producing high temperatures (above 100 °C) or high pressures (above 10 psi/68.9 kPa);
- \* unshielded high voltage equipment;
- \* exposed wiring or electrical contacts carrying more than 12 volts;
- \* materials regulated by quarantine; or
- \* unsafe wiring.

Note: Any project display deemed to be unsafe by the Judges must either be modified to satisfy them or removed from the Fair.

### **Discussing Your Project with the Judges:**

Fair participants must be present on Saturday morning and afternoon of the Fair to discuss their project with Science Fair Judges. Each project team will be interviewed separately by at least three judges. The judges will ask you to describe and explain your project. If you would like to discuss your project in a language other than English (i.e. French, German, Japanese or Russian), indicate this on your registration form. An attempt will be made to provide Judges or interpreters who speak your language.

### **Presenting Your Project to the Public:**

After the judging, participants are encouraged to discuss their projects with the general public who will be attending the Fair between 14:00 and 16:00 hrs. Projects should not be removed until after the public viewing ends at 16:00 hrs. The judges may retain the project reports until the Awards Banquet.

### **Judging and Awards:**

On the day of the Fair, all projects will be judged by science and engineering professionals from Vienna's international community. After judging, each entrant will receive a certificate and a ribbon for one of three ratings: superior - denoted by a yellow ribbon, excellent - blue ribbon, or honourable mention - red ribbon. At the Awards Banquet, awards will be given for the best project in each category and for the best in each division. Additional awards may be given for projects that deserve special recognition. All award winners will be announced at the Banquet.

### **Publication:**

The INMM reserves the right to publish part or all of any project report.