

**ITALIAN MACHINE TOOLS TECHNOLOGY AWARD - IMTTA**

# **“Paper Competition on the Technological Innovation in the Metalworking Industries That Will Bring You to Italy”**

**October - December 2016**

This initiative is organized by the

**Italian Trade Agency – ITA**

and

**UCIMU – SISTEMI PER PRODURRE**

Association of Italian Manufacturers of Machine Tools, Robots,  
Automation Systems and Ancillary Products

in collaboration with the

**Society of Manufacturing Engineers (SMEEF) Education  
Foundation**

**Introduction:** The Italian Trade Agency (ITA), in partnership with UCIMU SISTEMI PER PRODURRE (the Association of Italian Manufacturers of Machine Tools, Robots, Automation Systems and Ancillary Products), are proud to offer students of Metalworking technologies an opportunity to experience face to face the vanguard technologies and marketing strategies which have made Italian manufacturers recognized world leaders.

Throughout the years both the ITA and UCIMU have paid particular attention to the development of educational activities in Italy, which have promoted an understanding and awareness among university students of the history as well as current activities within the metalworking machinery industry.

The goal of this awarded opportunity is to strengthen the awareness of Italian technology and innovation within various metalworking related engineering research and education programs offered by premier North American universities while providing as well a first hand experience of the premier educational programs offered in Italy.

*\*Universities included are selected by agreement between the ITA, UCIMU and SME Education Foundation.*

**Eligibility:** This competition is open to registered students in a junior, senior or graduate level degree program of academic studies. Each university's respective faculty will determine students' eligibility to submit papers based on such criteria as: GPA, transcripts, COOP program activities, etc. The selected students will be allowed to submit papers according to the topics listed in the following section entitled "Categories".

**Students and faculty selected will have to have excellent English language skills and if not US citizens, must be in possession already of US status to travel to Italy. The ITA, nor its partner associations can take on the responsibility of providing visa or travel documentation assistance.**

Categories: Papers must be relevant to the disciplines surrounding mechanical engineering. The papers may be based on actual case histories and are to be developed according to the following suggested topic guidelines:

- Materials for Manufacturing
- Additive Manufacturing including 3D printing
- Mechatronics and robotics
- Manufacturing system, technology, process or business model.
- Machining (traditional and non-traditional processes)
- Nanomaterials and nanomanufacturing
- Digital Manufacturing

Faculties may decide to integrate this contest into current academic courses, allowing selected students accreditation for their work.

**Paper Requirements:** Submitted papers would ideally be between 10-12 pages in length, typed and double-spaced. However, paper length considerations can be given due to time constraints. Attachments such as footnotes, images, photocopied materials; source citations, statistics, etc. are allowed. Papers will be originally submitted in electronic format to SME EF.

**Panel of Judges:** Affiliated SME EF University Program Director/Co-Coordinator will select student papers to be submitted to SME Foundation for final selection. The SME Education Foundation panel of judges will be chosen in accordance with the guidelines established primarily by the ITA and UCIMU.

**Deadlines:** SME Education Foundation will determine the deadline for paper submission from the Universities; the ITA must have a definitive list of the winners selected to allow for the necessary travel preparations.

**Award Announcement:** The announcement of each respective winner may be conducted during a faculty-organized student meeting and/or ceremony on affiliated university grounds. Any University published articles; web pages, newsletters and press releases, which mention this award, are requested by the ITA. In addition if not otherwise, the announcement of the winners will be scheduled for the first week of November, 2016.

SME Education Foundation will promote the award program through its allied publication(s) and online media real estate.

#### **Awards:**

A complimentary trip to Italy will be awarded to a maximum of four (4) students (should budget allow) whose submitted papers are selected, according to a panel of judges, as best exemplifying the criteria in accordance with the guidelines set by the ITA and UCIMU.

The trip will be chaperoned by the ITA and UCIMU along with a maximum of one (1) US faculty professors (should budget allow).

The study trip to Italy is scheduled activities to take place November 27, 2016 - December 4, 2016. The proposed schedule is as follows:

#### **Sunday, November 27, 2016**

– Arrival in Milan, Italy with transfer to the University “LIUC” Varese (outside Milan)

#### **Monday, November 28 & Tuesday, November 29, 2016**

- Two day program at University “LIUC” Varese with international students and faculty from the other various Italian Technology Award Programs.

#### **Wednesday, November 30 - Saturday, December 3, 2016** program will include:

- Visits to selected Italian manufacturers of metalworking machinery production.
- Time dedicated to cultural activities.
- Visits to selected Italian machine tool machinery manufacturers offices and facilities,

orientation at ITA offices and/or UCIMU offices in Milan, and other related activities (TBA).

**Sunday, December 4, 2016**

- Return to United States

Airline flights (coach class), hotel accommodations, meals, and ground transportation between scheduled sites in Italy will be provided by the ITA, UCIMU and their local partners, for the duration of the determined dates in Italy (excluding personal expenses – phone, etc.).

Signed waivers absolving both the Italian Trade Agency, the Italian Association UCIMU, Italian local partners and the SME Education Foundation of any personal responsibility of the students' and professors' safety during travel to, from and in Italy will be requested by the winning students and accompanying professors prior to the trip.

Upon their return, students (and professors) will be asked to submit a summary of the program and its impact on their education.

**ITA and / or SMEEF Organized Event:** By no later than November 2017 (e.g. FABTECH 2017 in Chicago, e.g.), the ITA, UCIMU, and SME Education Foundation will potentially organize an event (i.e. awards ceremony, press conference and/or a presentation) of the IMTTA program.

A PowerPoint presentation of the IMTTA 2016 trip to Italy, prepared by the 2016 student winners, will be shown; it may be asked (should budget allow) that 2016 winners attend this event. At this time, the next edition of request for papers may also be announced.

**Closing Comments:** The papers will become property of the ITA, UCIMU and respective local partners, who will therefore have the right to share and distribute the papers in part or in their entirety among Italian Machinery Manufacturers, magazines and newspapers, etc. at their discretion.

The ITA and UCIMU hope this initiative will continue to provide valuable benefits and experiences to the chosen students from each respective university, along with giving the participating Italian machine tool machinery manufacturers a unique opportunity to showcase their metalworking technology in action to these future and successful decision-makers and end-users.