

# UNIVERSITY AND TECHNICAL HIGH SCHOOL

## Honeywell Users' Group 2010 Competition

### What will the control room of the future look like?

#### Competition Rules

1. The Contest is open to any student currently enrolled in an accredited college or university in Europe, the Middle East or Africa
2. Each entry must be sponsored by a supervising or advising faculty member. This means that the faculty member reviews and approves the student's entry before it is submitted to Honeywell. The faculty member should also affirm that the student wrote the paper him/herself.
3. The process industries are presented with challenges that impact their ability to operate effectively. Many operations personnel are or will be retiring soon. Cost constraints force these industries to consolidate their operations teams. The end result typically involves increasing the scope of control for each operator. Field operators also must do more and collaboration with the console/inside operator becomes paramount. In the end, these industries must face these and other challenges while operating safely and reliably. Given these concerns, how would you design the tools (operator interface, etc.) used by the operator in the future control room to help address the needs of the operations team?

A submission to this competition should consider all of the following topics or a subset of these topics as well as any new topics the submitter deems appropriate:

- o Changing the way employees in process industries do their jobs. For example, operations collaboration with outside/field operators and other functions (maintenance, engineering, etc.)
- o Operator training and knowledge retention
- o Design and ergonomics of the control room to enable efficiencies
- o New and future technologies for visualization
- o Connecting plants across the globe and creating virtual plants
- o Controlling critical functions
- o Visualizing plant operations and business data
- o Techniques and solutions for situation awareness
- o Extra points can be gained for making use of wireless data as process inputs, such as location in real-time of employees or equipment.

Thus, the submitted paper shall highlight the details of your work, why this approach has been unique and innovative, and what were the main benefits of your results. High points will be given to the most creative entries.

4. The abstract and the paper shall be submitted in the English language. It is also expected that the winner will present their paper at the Honeywell Users' group meeting in English.
5. The paper shall be submitted as a Microsoft PowerPoint presentation. The Honeywell Users' Group presentation template will be e-mailed to attendees when they have confirmed their notice of intent.
6. Due dates:
  - a. Notice of intent June 30, 2010, including an abstract of the paper (no more than 300 words).
  - b. Submission of the Paper, August 30<sup>th</sup>, 2010, including a Microsoft PowerPoint presentation of the paper. (no more than 20 slides)
  - c. Your notice of intent and your submitted paper should be emailed to **barbera.debaar@honeywell.com** including the following details:
    - Subject line: **University and High School HUG 2010 Competition - Control Room of the Future**
    - Body of message should include:
      - o Student name(s) as appears in passport
      - o Nationality
      - o Date of birth

- o Faculty advisor's name and title
  - o Name of college/university/high school
  - o Name of department(s) participating
  - o Location of college/university/high school (city, state or province and country)
  - o Level of study
  - o Email and phone number for student lead
  - o Email of faculty advisor
7. The contest will have one winner who will be selected from among the top entries by a jury of Honeywell and customer user experts.
8. The Prize for the winner includes:
- a. Waiving of registration fee for the Honeywell Europe, Middle East and Africa (EMEA) 22<sup>nd</sup> Annual Users' Group 2010, location and dates to be confirmed.
  - b. Air flight (or train ticket) for the author, from his/her University city within Europe, Middle East or Africa to the Users' Group venue 2010.
  - c. Hotel accommodation for 4 days/ 3 or 4 nights at a hotel to be decided by Honeywell within or nearby the premises of where the Honeywell Users' Group 2010 will be held.
  - d. Attendance of Honeywell Users Group Social events organized for the attendees, for the author.
  - e. Attendance certificates.
  - f. The author is responsible for their own visa arrangements if required, the cost of the visa will be reimbursed.
  - g. There will be no financial or monetary rewards of any kind.
  - h. If a team submits a winning entry, then two (02) student members of that team can attend in total. The choice of attendees is up to the team members.
9. The Jury retains the right to declare the contest void, if the submitted papers do not fulfill the eligibility expectations.
10. The Jury's decision is final.
11. The winner will be announced on the Honeywell web page on September 15, 2010, including the name of the paper, the author, the Faculty advisor's name and the University. Honeywell maintains the right to publish or distribute the winning and runner-up paper(s) through any electronic or physical form.
12. The winner is expected to attend the Prize giving ceremony and present their paper during the Honeywell's User Group Meeting. Non-attendance to the Prize giving Ceremony implies resignation of the prize.
13. Participating in this contest implies the full acceptance of these rules. For those situations not covered herein, the Honeywell organization committee will rule, considering, as the top priority, the equal chances of winning for all the participants.