Robotica (1983) volume 1, pp 59–60

# Announcements

## AFCET CONGRESS ON PRODUCTOLOGY AND INTELLIGENT ROBOTICS

Besançon (France) – November 15/17, 1983.

The ever-increasing global approach demanded by automation can be summarized in the three title words of this congress: Productology – Robotics – Intelligence.

Productology – to insist on the fact that automation is no longer simply a relationship between actuators, machines or workshops, but allied to the act of production itself, which at the right moment, in the quality desired, and in the quantity necessary, must supply a group of products.

Robotics – for the robot is the first truly flexible and programmable machine which makes it possible to interconnect the discontinuous operations characteristic of manufacturing production in a continuous manner.

Intelligence – because the efficiency of an integrated production system is obtained by a large "delegation of power" to the different sub-systems which then must possess a true functioning autonomy.

This congress is built around a core of eight themes which constitute the projections to be used in analysing productology.

The key words give an idea of the extent of the competences needed today to encompass all the facets of automation.

Two technical themes are handled in greater detail: Welding and Assembly, for these professions in particular are going to undergo transformations with the arrival of the intelligent use of robots.

It is our sincere hope that this congress will attract conferences of quality. In this manner, will constitute an up-to-date methodological reference in this field by giving us an important direction for the 90s.

The delegates of the European Community are invited to profit from the central location of the city of Besançon, which welcomes them to come and present their work.

During the congress, a hall for the projection and presentation of experiments on posters will be placed at the disposal of all interested persons.

### THEMES OF THE SESSIONS

Methodologies – mathematical tools – algorithms for workshop guidance – scheduling – analytic methods – engineering methods – operational safety – decision assistance – artificial intelligence.

Transport Systems – handling – conveyors – autonomous vehicles – guidance systems – mobile robots – palletization – prepacking (intermediate, final) – packaging – shipping.

Human Aspects – training (instruction programmes) – qualification – ergonomics – work valorization – work safety – man-machine dialogue.

Economic Aspects – investments – amortization – profitability – reproductivity calculations – strategy of the equipment industries – technico-commercial dependencies.

Social Aspects – employment – introduction within the company – mutation of competences – regional balances – work structure and organization.

Technological Tools – industrial data processing (languages, system experts) networks – information systems – sensors – instrumentation (sight, touch) – actuators – electric motors – digitalized axes.

Welding – robots – welding machines – joint tracking sensors – lasers – CAD

Assembly – methodology – robots – sensors – fastening techniques–form recognition–clamps–effectors–peripheral robots–conditioning–CAD

**Secretariat of the Congress**

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## ROBOTS 7—CONFERENCE AND EXHIBITION

The theme '*The Emerging Challenge*' is the focus for the 13th ISIR/ROBOTS 7 Conference and Exhibition to be held on April 18–20, 1983, in Chicago, Illinois (USA).

The technical program and exhibits alike will concentrate on the challenge of implementing this burgeoning technology, including all the viable considerations from applications to human factors. There are many hurdles to be overcome by everyone from users to manufacturers in the implementation of robotics. The 13th ISIR/ROBOTS 7 event will center on this task, crucial to rapid and continued growth of robotics in manufacturing—the key to productivity improvement and aggressive competition in the world of manufacturing.

ROBOTS 6 in Detroit (March, 1982) was a phenomenal success by any standard, with 67,000 sq. ft. of displays and 27,872 in attendance. This is more than a 500% increase over the previous ROBOTS 5 in the fall of 1980. Robots technology is the fastest growing in the world, and this is your opportunity to benefit from its largest and most comprehensive event.

### THE CONFERENCE

The 13th ISIR/Robots 7 Conference will reflect the increasing demand for continuing education and the need for comprehensive information on the rapid advancement of the robot industry around the globe. Over 2,500 attendees and speakers will exchange the latest practical and theoretical knowledge.

The 13th ISIR/Robots 7 will focus on the most up-to-date robotic information in the world. The conference will be highly application-oriented with additional focus on world-wide research projects. Sessions will also address human factors, justification, implementation, education and major international developments. Intense media coverage of this high interest field will further enhance your 13th ISIR/Robots 7 experience.

### THE EXHIBITION

ROBOTS 7 will be devoted solely to the display of robots, sophisticated auxiliary equipment, and professional engineering and consulting services. Live action demonstrations of equipment and systems by companies involved in every aspect of robot technology, from entire turn-key systems to suppliers of

components and software will be featured. On display will be:

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| Robots | Security Systems |
| Sensors | Gripper and End of Arm Tooling |
| Controls | Interface Systems for Material Handling |
| Motors | |
| Servo-Valves | Servo Systems—Electromechanical, Hydraulic and Pneumatic |
| Manipulators | |
| Welding Systems | Optical Gaging and Inspection Systems |
| Material Handling | Die and Investment Casting Equipment |
| Video Systems | Coating, Stamping, Forming, Finishing Equipment |

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