

MECHATROLINK News provides members of the MECHATROLINK Members Association with the latest information on MECHATROLINK.

## Techno-Frontier Participation Report

MECHATROLINK Members Association organized the first exhibition of MECHATRONICS CONTROL at Techno-Frontier 2008, held at Makuhari Messe in Chiba, Japan, from April 16 (Tues) to 18 (Fri.). MECHATRONICS CONTROL occupied the space of three standard booths ((2.97x2.97x 2.7)m<sup>2</sup> x 3). Within this limited space, a full wall was used to demonstrate MECHATROLINK-II interconnectability of each member company as the main part of the exhibition. In addition, MECHATROLINK-III was exhibited to demonstrate its high-speed transmission and versatile functions. The products of MMA members on display tables along the passages drew the interest of many visitors, and the exhibition ended as a great success.

The following members participated in the exhibition (in a alphabetic order):

ALGOSYSTEM Co., Ltd., ANYWIRE Corporation, Digital Electronics Corporation, HARMONIC DRIVE SYTEMS Inc., IAI Corporation, KOYO ELECTRONICS INDUSTRIES Co., Ltd., MELEC Inc., MICRONET Corp., M-System Co., Ltd., MYCOM Inc., OMRON Corporation, ORIENTAL MOTOR Co., Ltd., RKC Instrument Inc., Soft Servo Systems, Inc., YASKAWA Electric Corporation, YOKOGAWA Electric Corporation



MMA booth

## Annual General Meeting 2008

The MMA fourth annual general meeting will be held on June 24th (Tuesday), 2008. During the meeting, the MMA secretariat will report on the activities of 2007 and the plans for 2008. The meeting will be followed by introductions of new MECHATROLINK products by member companies and two lectures by special guests:

"Trends and Subjects of Network/Control Systems in the Automobile Industry" by Nissan Motor Co., Ltd,  
"Trends in Semiconductor Manufacturing Systems and Electrical Product Demand" by SHINKAWA Ltd.

After the lectures, a reception will be held to allow the participants to exchange information and opinions.

Only MMA members are entitled to participate this meeting.

Date & Time: Tuesday June 24, 2008 from 13:00 to 18:30

Place: Hotel Tokyo Garden Palace in Ochanomizu, Tokyo

Program: Annual general meeting, lectures (special lectures and introduction of new MECHATROLINK products of member companies), and a reception

Qualifications: MMA membership

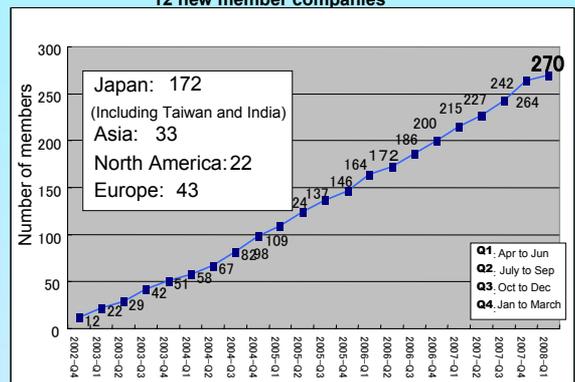
All participants will receive a welcome gift. (Admission charge: Free)



Snap shot of annual general meeting 2007

## Increase in MMA Membership

258 companies (Mar. 2008) ⇒ 270 companies (May 2008)  
12 new member companies



## News from MMA Offices

First Reporter: MMA Head Office

Starting with this issue of the MECHATROLINK News, each MMA office will take turns reporting on its activities and deliver unique local news. The MMA head office has the honor of reporting first.

Five employees work in the head office. The staff is limited, but everybody does their utmost to maintain the satisfaction of each MMA member.

Let's introduce ourselves.

**Tanaka** (secretariat chief) is in charge of planning, communication with other companies, management of the executive committee, coordination of branch offices, etc.

**Mizumoto** is in charge of MMA membership promotion, activities to promote the use of MECHATROLINK, activities of subcommittees, etc.

**Sakata** is in charge of software, technical document preparation, support to MMA members, etc.

**Shimohata** is in charge of hardware, technical document preparation, support to MMA members, etc.

**Itaya** is in charge of exhibitions, public relation, receptions of applications for MMA membership, etc.

We will continue our efforts to expand the MMA and its activities.

From the left, Tanaka, Mizumoto, Itaya, Shimohata, and Sakata



## New MECHATROLINK Products

We are pleased to introduce two new MECHATROLINK-III compliant products developed by an MMA member.

Yaskawa Controls Co., Ltd.

### MECHATROLINK-III Sample Kit

Model: JEPMC-OPM3SK-1-E, JEPMC-OPM3SK-2-E

Features:

- Contains five sets of main component parts required for the physical layer.
- Convenient in prototype development



### MECHATROLINK- III Network Cable

Features:

- Connects slave devices, such as servo drives, stepping motor drives, inverters, I/O devices, and sensors, to a host controller in a MECHATROLINK network to transfer data and signals
- Strict quality management, from material inspection to production
- RoHS compliant



Inquiries:

Yaskawa Controls Co., Ltd.

For contact information in different districts, visit the MMA home page (<http://www.mechatrolink.org/>) and click "Products" to open Yaskawa Controls' page.

## More about MECHATROLINK

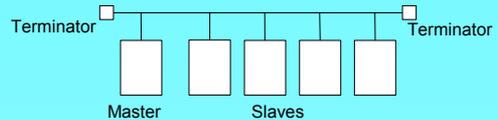
### MECHATROLINK Network Topologies

In the manual and technical documents, MECHATROLINK-II and -III topologies are illustrated in the same way, and as if all devices were connected to a common line. However, the two topologies differ from each other as described below.

#### MECHATROLINK-II: Bus connection

All of the nodes of the network, whether master or slave, are connected to a common bus (trunk).

Low-cost and no propagation delay

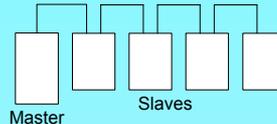


#### MECHATROLINK-III: Cascade connection

1:1 communication between the adjacent nodes

Easy to match impedance of transmission lines and effective for high-speed transmission

However, transmission delay occurs in each node (M-III is provided with a delay measuring function to prevent this delay in a node.)



Terminators are also not required.

## New MMA Members

CyVerse Corp., Epoch Electronics Corporation, Fastech Inc., Korea Institute of Industrial Technology, National Instruments, PROMAX srl, RENU ELECTRONICS

(Only members who have given permission for their contact information to be published are listed, in alphabetic order.)

## Scheduled Events

June 24th: MMA annual general meeting

July 9th to 12th: EASTPO 2008 in China

August: MECHATROLINK seminar (Tokyo area) (Details will be provided later.)

### Contact

If you wish to join the MECHATROLINK Members Association or have any inquires, please contact us below.

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