Pursuing safety, reliability, comfort, global environment, and energy saving

Review report

Sponsor: Fuji Sankei Business - i
Organizer: CNT Inc.
Outline

● Title: Mass-Trans Innovation Japan 2015 (MTI Japan 2015) Bridge & Tunnel Technology Expo

● Dates: November 6(Wed.) – 8(Fri.), 2015 10:00 – 17:00

● Venue: MAKUHARI Messe Hall No.4,5,6 (Chiba, Japan)

● MTI Japan 2015 Supporting Organization:

● MTI Japan 2015 Cooperate Organization:

● Bridge & Tunnel Technology Expo Supporting Organization:
  Ministry of Internal Affairs and Communications, Ministry of Land, Infrastructure and Transport, Chiba prefecture, Chiba city

● Bridge & Tunnel Technology Expo Cooperate Organization:
  Japanese Geotechnical Society, Japan Society of Civil Engineers, Japan Federation of Construction Contractors, Japan Bridge Association, Japan Tunnelling Association, Japan Society of Next Generation Sensor Technology

● Admission fee(including tax):
  2,000 yen
  (Free for holders of invitation cards, persons who register in advance via the Internet)

● Sponsor: Fuji Sankei Business-i

● Organizer: CNT Inc.
Joint symposium:

**STECH2015**
(The International Symposium on Speed-up and Sustainable Technology for Railway and Maglev Systems)

Dates: November 10(Tue.) – 12(Thu.), 2015
Venue: MAKUHARI Messe, International Conference Hall (Chiba, Japan)
Organizer: Japan Society of Mechanical Engineers (JSME)
Number of participants: 342
Participating countries: 15
Number of papers: 168

Meeting held concurrently:

**The 4th Japan-EU Railway Industrial Dialogue**

The Japan-EU Railway Industrial Dialogue is held regularly by the Ministry of Land, Infrastructure, Transport and Tourism and the Directorate General Internal Market of the European Commission by turns, with the participation of government officials, railway companies, providers and industry associations from Japan and the EU. The purpose of the dialogue is to promote mutual understanding of both railway markets by exchanging opinions and information and to extend the opportunity of entry into each other’s market.

The fourth dialogue was held in Makuhari Messe, International Conference Hall on November 10, the previous day of MTI Japan 2015. Participants exchanged information on promotion of entry into the railway procurement market, future railway development plans and technical standards. After the dialogue, they visited the venue of MTI Japan 2015, while exhibitors were preparing for the exhibition.
Railway Designers' Evening 2015

Date: November 12(Thu.), 2015 15:00-17:00
Venue: MAKUHARI Messe, International Conference Hall Room201 (Chiba, Japan)
Organizer: Railway Designers' Evening executive committee, Fuji Sankei Business-i

Program:
【Keynote Session】15:00 〜 15:45
"From the Dawn to the Present of Japanese Railway Designs"
Mr.Tetsuo Matsuo, President, Kenmochi Design Associates
Mr.Kazuo Kimura, Dean & Professor, School of Media and Design, Nagoya University or art and science
Coordinator: Ms. Yuko Hashimoto
【Exchange Meeting】16:00 〜 17:00
Number of exhibitors / booths

MTI Japan 2015
450 companies/organizations, 913 booths (including 48 overseas companies)

Bridge & Tunnel Technology Expo
59 companies/organizations, 97 booths

Number of registered visitors

<table>
<thead>
<tr>
<th>Date</th>
<th>Weather</th>
<th>Number of registered visitors</th>
<th>Previous (2011)</th>
</tr>
</thead>
<tbody>
<tr>
<td>November 11 (Wed.)</td>
<td>Fair</td>
<td>8,731</td>
<td>5,452</td>
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<tr>
<td>November 12 (Thu.)</td>
<td>Fair</td>
<td>9,136</td>
<td>6,357</td>
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<tr>
<td>November 13 (Fri.)</td>
<td>Fair</td>
<td>10,640</td>
<td>7,412</td>
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<td>Total</td>
<td></td>
<td><strong>28,507</strong></td>
<td><strong>19,221</strong></td>
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</table>

Note: This table excludes those involved with the sponsor, organizer, and exhibitors. Repeat visitors (who visited the exhibition on multiple days) are counted as single visitors.
Joint Events

* The affiliation of the speakers at the time of the sessions is indicated.

**Keynote Session: (Co-hosted by STRECH2015 and Mass -Trans Innovation Japan 2015)**

Date: November 11 (Wed.) 15:40 〜 17:00  
Venue: International Conference Room  
Number of participants: 410 Language: English

15:40 〜 16:20  
**Safety Management System in Seoul Metropolitan Rapid Transit Cooperation**  
Mr. Choi, Jung-Kyun, Executive Director of SMRT  
(Seoul Metropolitan Rapid Transit Cooperation, Korea)

16:20 〜 17:00  
**Open Innovation and Open Globalization of Management and Technology in Railway Industry**  
Mr. Masaki Ogata, Vice Chairman, East Japan Railway Company (Japan)

Date: November 12 (Thu.) 10:30 〜 11:50  
Venue: International Conference Hall  
Number of participants: 140 Language: English

10:30 〜 11:10  
**Railcar’s innovations by the Brazilian railway industry**  
Mr. Vicent Abate, President, ABIFER  
(Brazilian Association of the Railroad Suppliers, Brazil)

11:10 〜 11:50  
**Research Activities at the Centre for Railway Research, IIT Kharagpur**  
Dr. Subhransu Roy, Professor, Indian Institute of Technology (India)
Special Session: Mutual development in railway business between Japan and the EU

Date: November 11 (Wed.) 12:55 ~ 15:10
Venue: International Conference Hall, Room 201
Number of participants: 272

12:55 ~ 13:25
Transition and global development of railway technology focusing on energy saving
Mr. Takahiro Kikuchi, Executive Officer, Group President, Public Utility Systems, MITSUBISHI ELECTRIC CORPORATION

13:30 ~ 14:00
Globalization of Hitachi’s railway business
Mr. Kentaro Masai, Corporate Officer, President & CEO, Rail Systems, Company, Rail Global COO, Hitachi, Ltd.

14:05 ~ 14:35
The future of wheelset management - new technologies for wheelset maintenance measurements
Mr. Philipp Sandheigl, Sales Manager, NEXTSENSE GmbH

14:40 ~ 15:10
History and future of communication based signaling for efficient mass transit operation
Dr. Gerd Scheller, Head of Business Segment Mass Transit Rail Automation, Siemens AG
Seminar

『Country report presentation for JICA urban railway management course』
Organizer: JICA (Japan International Cooperation Agency)  Co-organizer: Fuji Sankei Business-i
【Language: English】
Date: November 11 (Wed.) 10:00 〜 16:00
Venue: International Conference Hall, Room 303
Number of participants: 53

Participating countries: BANGLADESH, BRAZIL, INDIA, INDONESIA, IRAN, MONGOLIA,
MYANMAR, NIGERIA, PAKISTAN, PHILIPPINES, SOUTH AFRICA,
SRI LANKA, THAILAND, TURKEY, VENEZUELA, VIET NAM

Recent signalling technology and its impact to train control
Date: November 12 (Thu) 13:30 〜 16:30
Venue: International Conference Hall, Room 303
Number of participants: 168

- European latest signalling system - Denmark cases and ERTMS
  Dr.Felix Laube, University of Technology, Sydney

- New developments about train control technology in China
  Prof.Tang Tao, Beijing Jiaotong University

- The signalling technology and train control system in Japan
  Dr. Masayuki Matsumoto, JR East Electrical & Signal Network System Dep.Technical Advisor

- Development of CBTC technology in Nippon Signal Company, Ltd.
  Mr. Makoto Yagi, Nippon Signal Company, Limited

- Signalling technology and functional safety
  Mr. Sven Novak, Vice President, Railway Signalling, TÜV SÜD Asia Pacific Pte Ltd

Panel Discussion (Language : English)
Dr.Felix Laube / Prof.Tang Tao / Dr. Masayuki Matsumoto / Mr. Makoto Yagi / Mr. Sven Novak /
+ Prof. Yuji Hirao (Nagaoka University of Technology)

[Coordinator]
Mr. Takafumi Koseki, Professor, Department of Electrical Engineering and Information Systems,
Graduate School of Engineering, University of Tokyo
“Overseas Expansion of Railways and Other Social Infrastructures”
Date: November 12 (Thu) 13:30 ~ 15:00
Venue: International Conference Hall, Room 202
Number of participants: 62

Mr. Hiroshi Fukayama, Manager, Project Department, Japan Overseas Infrastructure Investment Corporation for Transport & Urban Development
Mr. Yasuki Kominami, Deputy Director, Division 1, Transportation and Telecommunication Finance Department, Infrastructure and Environment Finance Group, Japan Bank for International Cooperation
Ms. Satoko Tanaka, Director, Team 2, Transportation and ICT Group, Infrastructure and Peacebuilding Department, Japan International Cooperation Agency

“Improvement of Convenience by Tramway Companies Using New Technology”
Organizer: Japan Transportation Planning Association
Date: November 13 (Fri.) 13:00 ~ 16:00
Venue: International Conference Hall, Room 201B
Number of participants: 107

13:00 - 13:30 “Present situation and future development of tramway companies”
Mr. Takanori Hiramachi, Director, Tram Division, Hiroshima Electric Railway Co.,Ltd. (Managing Director, Japan Tramway Transit Association)

13:40 - 14:20 “Toward the completion of LRT network in Toyama City - Efforts in north-south connection project at Toyama Station -”
Mr. Hiroshi Taniguchi, Senior Deputy Director General, Urban Development Department, Toyama City Government

14:30 - 15:10 “Present situation and future steps of Fukui Railway - Extension of the line of Echizen Railway, extension of the area around the station, and new track structures -”
Mr. Murata Haruo, President, Fukui Railway

15:20 - 16:00 “Moving and opening of new Transport Bureau - Safe and efficient rail yard -”
Mr. Hiromi Sonoda, Bureau Chief, General Planning Division, Kagoshima City Transportation
“Station-Centered Urban Development”
Date: November 13 (Fri.) 13:30 〜 16:30
Venue: International Conference Hall, Room 304
Number of participants: 126

Mr. Akira Motomiya, General Manager, Shinagawa and Large-scale Developments Department, East Japan Railway Company
Mr. Ryosuke Touura, General Manager, Business Planning Division, Development Headquarters, Urban Development Business Unit, Tokyu Corporation
Mr. Masataka Kodama, Managing Officer, Takenaka Corporation
Prof. Miki Muraki, Graduate School of Engineering, Department of Urban Environment Systems, Chiba University

“Railway-Centered Community Formation”
Date: November 13 (Fri.) 13:30 〜 16:30
Venue: International Conference Hall, Room 303
Number of participants: 167

Current status and tasks of regional railway
Mr. Kazuaki Yamada, President, Wakasa Railway Co., Ltd.
Mr. Masahiko Mochizuki, President, Sanriku Railway Co., Ltd.
Mr. Yoshihiro Kumamoto, Senior Executive Officer, Deputy Director General, Corporate Planning Headquarters, East Japan Railway Company
Coordinator: Mr. Takashi Soiri, President, Rail & Tech Publishing Co., Ltd.

Panel Discussion
Prof. Ayumi Han, Department of Integrated Design Engineering, Maebashi Institute of Technology
Ms. Tamaki Chaki, Writer
Mr. Yasuyuki Kawanishi, President, ICHIBANSEN / nextstations
Mr. Akira Inoue, President, Inoue Design
Coordinator: Prof. Ieda Hitoshi, Department of Civil Engineering, School of Engineering, the University of Tokyo
**“Evolution to Highly Safe and Quality Railway System and Its Global Expansion”**

Special Support: STECH2015  
(The International Symposium on Speed-up and Sustainable Technology for Railway and Maglev Systems)  

**Date:** November 13 (Fri.) 13:30 〜 16:30  
**Venue:** International Conference Hall, Room 201A  
**Number of participants:** 152

<table>
<thead>
<tr>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
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</thead>
<tbody>
<tr>
<td>“History of safety progress of Japanese railways – Lessons learned from accidents and outline of practical application of new technology for safety –”</td>
<td>Dr. Akira Matsumoto, Member, Japan Transport Safety Board</td>
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</tr>
<tr>
<td>“Safety of Japanese railways viewed from overseas”</td>
<td>Prof. Roderick Smith, Imperial College London</td>
<td></td>
</tr>
<tr>
<td>“Development of ATS/ATC and history of safety progress in Japan”</td>
<td>Dr. Ryo Takagi, Associate Professor, Department of Electrical Engineering, Faculty of Engineering, Kogakuin University</td>
<td></td>
</tr>
<tr>
<td>“Prospect of train control system achieving high reliability and safety”</td>
<td>Mr. Hideo Nakamura, Director, City Planning Survey and Information Office, City Planning Division, City Bureau, Ministry of Land, Infrastructure, Transportation and Tourism</td>
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<tr>
<td>“Safety evaluation and technical approval of new railway technology in Japan”</td>
<td>Mr. Takeshi Mizuma, Executive Director, National Traffic Safety and Environment Laboratory</td>
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</tr>
<tr>
<td>“General discussion and summarization”</td>
<td>[Commentator]</td>
<td>Dr. Satoru Sone, Specially Appointed Professor, Kogakuin University</td>
</tr>
</tbody>
</table>
Keynote Session: “Measures against Degradation of Social Infrastructures”

Date: November 11 (Wed.) 11:00 〜 12:00
Venue: International Conference Hall, Room 301
Number of participants: 182

Mr. Yasushi Kobayashi, Director for Infrastructure Policy, Policy Bureau, Ministry of Land, Infrastructure, Transport and Tourism

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Special Session I
“Present State and Problems of Aging Degradation of Social Infrastructures”
(CPD Program authorized by Japan Society of Civil Engineers - JSCE15-0844)

Date: November 11 (Wed.) 13:30 〜 15:00
Venue: International Conference Hall, Room 301
Project cooperator: Japan Society of Next Generation Sensor Technology
Number of participants: 220

Mr. Chitoshi Miki, President, Tokyo City University

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Special Session Ⅱ
“Trends of Maintenance and Management Technology for Road Tunnels”
(CPD Program authorized by Japan Society of Civil Engineers - JSCE15-0845)

Date: November 12 (Thu.) 13:30 〜 14:30
Venue: International Conference Hall, Room 301
Project cooperator: Japan Society of Next Generation Sensor Technology
Number of participants: 174

Mr. Nobuharu ISAGO, Leader, Tunnel research team, Road technology research group, Public Works Research Institute
Special Session III
“Present State of Maintenance and Management of Railway Structures and Recent Technical Development”
(CPD Program authorized by Japan Society of Civil Engineers - JSCE15-0846)
Date: November 12 (Thu.) 15:00 〜 16:00
Venue: International Conference Hall, Room 301
Project cooperator: Japan Society of Next Generation Sensor Technology
Number of participants: 166

Mr. Yukihiro Tanimura, Director, Structures Technology Division, Railway Technical Research Institute

Special Session IV
Date: November 13 (Fri.) 13:30 〜 15:55
Venue: International Conference Hall, Room 301
Number of participants: 252

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:30 - 14:15</td>
<td>“Maintenance and Management of Expressways (Bridges and tunnels)”</td>
<td>Mr. Toshihiro Matsuzaka, General Manager SMH Promotion Team, Operation Division</td>
</tr>
<tr>
<td>14:20 - 15:05</td>
<td>“Maintenance and Management of Subways (Bridges and tunnels)”</td>
<td>Mr. Shinji Konishi, Director of Structure maintenance division, Engineering Department, Tokyo Metro Co., Ltd.</td>
</tr>
<tr>
<td>15:10 - 15:55</td>
<td>“Strategic Maintenance and Management of Infrastructures using ICT”</td>
<td>Dr. Yusho Ishikawa, Project Professor, Graduate School of Interdisciplinary Information Studies</td>
</tr>
</tbody>
</table>
Visitor Analysis  (Counted based on replies to the entry registration form/pre-registration form)

Which segment do you belong to?

What is your job type?
What is the purpose of your visit to the exhibition?

- Gathering product information: 38.2%
- Gathering field information: 38.2%
- Gathering general information: 17.6%
- Gathering exhibition information for the next exhibition: 0.5%
- Other: 5.5%
Which segment do you belong to?

![Pie chart showing distribution of segments]

- Other: 44.6%
- Civil engineering, engineering, construction: 28.5%
- Government and municipal offices, local: 7.6%
- Refueling and road maintenance: 4.3%
- Consultant: 6.9%
- Academic/R&D: 2.7%
- Maintenance operators of bridges, tunnels, etc.: 10.4%

What is your job type?

![Pie chart showing distribution of job types]

- Sales, Service: 38.7%
- Design: 15.6%
- R&D: 19.5%
- Faculty member: 0.4%
- Student: 4.8%
- General affairs: 1.6%
- Personnel affairs: 0.4%
- Accounting: 0.7%
- Information processing, System: 2.0%
- Management planning: 9.2%
- Public relations, Advertising: 1.1%
- Manufacturing, Quality control: 6.0%
What is the purpose of your visit to the exhibition?

- Gathering product information: 36.4%
- Gathering field information: 39.1%
- Gathering general information: 20.0%
- Other: 3.9%
- Gathering exhibition information for the next exhibition: 0.7%
Results of Exhibitors Questionnaire

How satisfied are you in general?

- Satisfied: 41.2%
- Fairly satisfied: 45.7%
- Fairly unsatisfied: 11.6%
- Unsatisfied: 1.5%

Please tell us the number of visitors to your booth.

- More than expected: 33.3%
- As expected: 42.9%
- Less than expected: 23.8%

How was the number of prospects visiting your booth compared to your expectations?

- As expected: 65.2%
- Less than expected: 21.0%
- More than expected: 13.8%

Please select the type of visitors you wish to see as visitors of this exhibition.

- Railway operator: 88.0%
- Rail car manufacturer: 53.0%
- Engineering/construction: 42.0%
- Railway tech. manufacturer/supplier: 45.0%
- Trading firm: 21.0%
- Industry organization/institute: 17.5%
- Academic/R&D: 13.0%
- Government authority: 21.5%
- Consultant: 10.5%
- Other: 3.5%
Please select the purpose of your exhibit (select as many as you wish).

- For sales purposes: 90.5%
- To announce a new product: 58.0%
- To find new customers: 83.5%
- For advertisement/promotion of the company/institution/products: 72.0%
- To seek distributors: 14.5%
- Other: 8.0%
Please select the type of visitors you wish to see as visitors of this exhibition.

<table>
<thead>
<tr>
<th>Type of Visitors</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maintenance operators of bridges, tunnels, etc.</td>
<td>84.8%</td>
</tr>
<tr>
<td>Government and municipal offices, local governments</td>
<td>60.6%</td>
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<tr>
<td>Railway companies, road management operators</td>
<td>75.8%</td>
</tr>
<tr>
<td>Civil engineering, construction</td>
<td>72.7%</td>
</tr>
<tr>
<td>Consultants</td>
<td>66.7%</td>
</tr>
<tr>
<td>Other</td>
<td>0.0%</td>
</tr>
</tbody>
</table>
Please select the purpose of your exhibit (select as many as you wish).

- For sales purposes: 57.6%
- To announce a new product: 45.5%
- To find new customers: 90.9%
- For advertisement/promotion of the company/institution/products: 60.6%
- To seek distributors: 18.2%
- Other: 15.2%
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<thead>
<tr>
<th>Exhibitor Name</th>
<th>Booth No.</th>
</tr>
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<tbody>
<tr>
<td>Daini Type Co., Ltd.</td>
<td>C-19</td>
</tr>
<tr>
<td>GOADO SEIKAKUSAI CO., LTD.</td>
<td>J-29</td>
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<tr>
<td>GODFORD CO., LTD.</td>
<td>C-18</td>
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<td>GRADIENTSION</td>
<td>I-10</td>
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<tr>
<td>Hankyu Harukaze Railway Technology Co., Ltd.</td>
<td>H-15</td>
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<tr>
<td>Hana MFG. Co., Ltd.</td>
<td>D-14</td>
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<td>HARA CORPORATION</td>
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<td>Harada Seisakusyo Co., Ltd.</td>
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<td>HARDOY INDUSTRIAL CO., LTD.</td>
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<tr>
<td>HASEDAI ELECTRIC CO., LTD.</td>
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<td>HATA Limited</td>
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<td>Hatonoi St. Co., Corp.</td>
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<td>Real Rock Kobayashi Co., Ltd.</td>
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<td>HEP DUTIFERMET JAPAN Co., Ltd.</td>
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<tr>
<td>Hitachi Automotive Systems Ltd.</td>
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<td>Hitachi Cable Networks, Ltd.</td>
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<td>Hitachi Wireless Systems Ltd.</td>
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<td>HOSEI AND SEI CO., LTD.</td>
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<td>ITech Corporation</td>
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<td>Japan TRANSPORT ENGINEERING COMPANY</td>
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<td>KIKUSUI</td>
<td>F-07</td>
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<td>KIYOTUSA KEN CO., LTD.</td>
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<td>KYOCERA ELETRONIC INSTRUMENTS CO, LTD.</td>
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<td>KNT TECHNOLOGY COMPANY</td>
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<td>KYOTO TECHNICAL CORPORATION</td>
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<tr>
<td>KAWASAKI Steel &amp; Buruni Co., Ltd.</td>
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<td>KAWASAKI Electric Industries Co., Ltd.</td>
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<td>KC Industrial Mini Conference</td>
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<td>KOKUSAI SYSTEM CORPORATION</td>
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<td>KOMITETSU RAILROAD ENGINEERING CO., LTD.</td>
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<td>KIYOSHI JIN CO., LTD.</td>
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<td>Oki Electric Industries Co., Ltd.</td>
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<td>OTOWA ELECTRIC CO., LTD.</td>
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