

ICE2015

**12th International Conference
on Engines & Vehicles**

**FINAL
REPORT**



38
Papers
published on
Sae Journal

24
Countries

145
Papers
presented

38
Companies

62
Universities

14
Research
Center

304
Abstracts
submitted

289
Participants

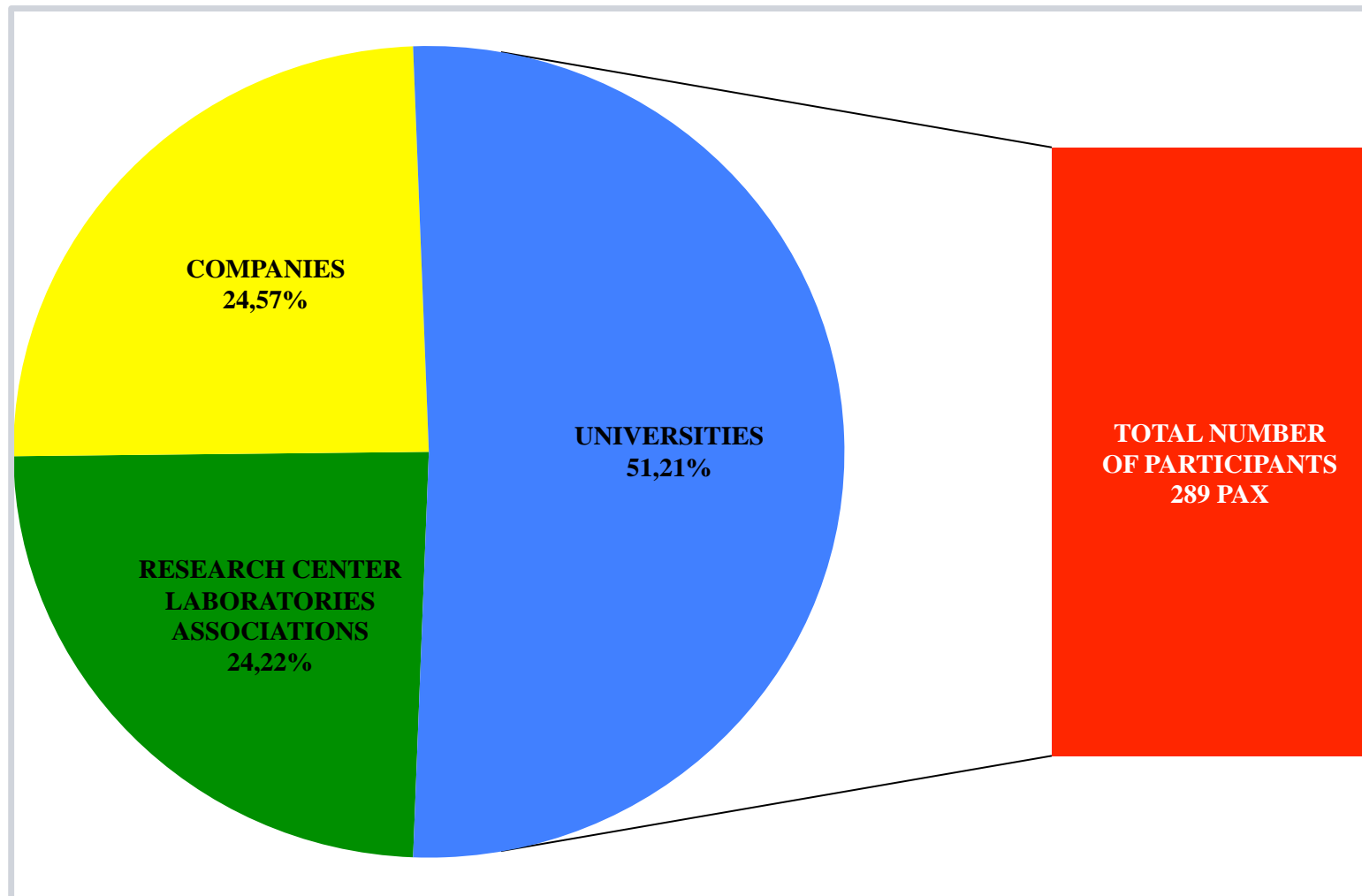
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12th International Conference
on Engines & Vehicles

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September 13 - 17, 2015 @ Capri, Napoli

PARTICIPANTS SORTED by AFFILIATIONS



UNIVERSITIES
148

COMPANIES
71

RESEARCH CENTERS LABORATORIES ASSOCIATIONS
70

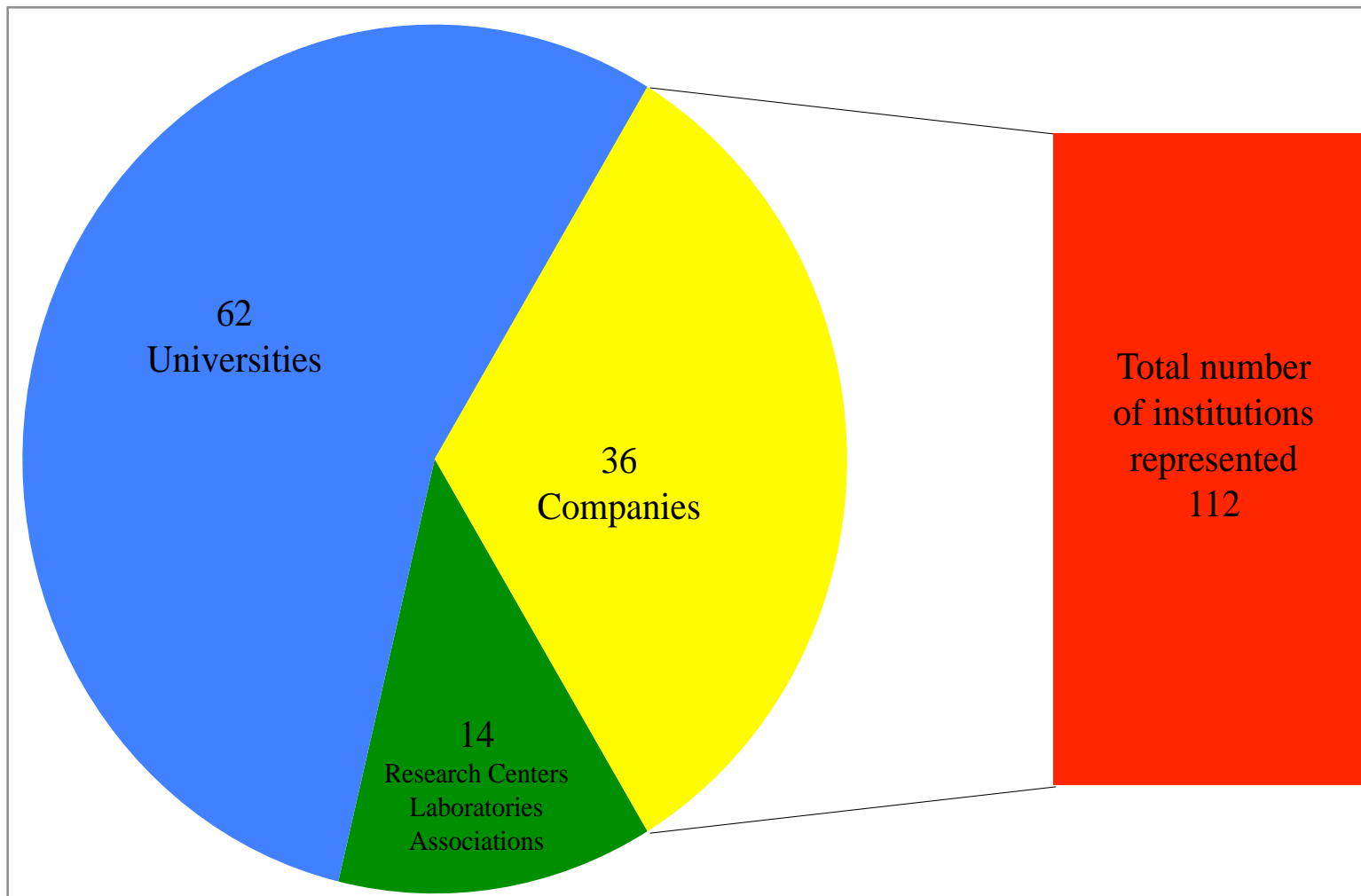
TOT. PARTICIPANTS
289

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INSTITUTIONS ATTENDING THE CONFERENCE



 UNIVERSITIES

 COMPANIES

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UNIVERSITIES

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|----|--|----|---|----|--|
| 1 | BRANDENBURG UNIVERSITY OF TECHNOLOGY | 22 | NATIONAL INSTITUTE OF IND. SCIENCE & TECHNOLOGY | 43 | UNIVERSITY OF L'AQUILA |
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| 7 | ECOLE CENTRALE DE NANTES | 28 | SCIRE | 49 | UNIVERSITY OF ORLÉANS |
| 8 | ÉCOLE MILITAIRE POLYTECHNIQUE | 29 | SEOUL NATIONAL UNIVERSITY | 50 | UNIVERSITY OF PADOVA |
| 9 | ETH ZURICH | 30 | TALLINN UNIVERSITY OF TECHNOLOGY | 51 | UNIVERSITY OF PERUGIA |
| 10 | FRANFURT UNIVERSITY OF APPLIED SCIENCES | 31 | TECHNICAL UNIVERSITY BRAUNSCHWEIG | 52 | UNIVERSITY OF ROME TOR VERGATA |
| 11 | GHENT UNIVERSITY | 32 | TECHNICAL UNIVERSITY OF DENMARK | 53 | UNIVERSITY OF SALENTO |
| 12 | GRAZ UNIVERSITY OF TECHNOLOGY | 33 | TECHNICAL UNIVERSITY OF LIBEREC | 54 | UNIVERSITY OF SALERNO |
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| 20 | KOREA INSTITUTE OF MACHINERY & MATERIALS | 41 | UNIVERSITY OF CAMBRIDGE | 62 | WAYNE STATE UNIVERSITY |
| 21 | LUND UNIVERSITY | 42 | UNIVERSITY OF KASSEL | | |

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| 1 | ACHATES POWER | 19 | GENERAL MOTORS |
| 2 | ARAMCO | 20 | HONDA R&D CO.,LTD. |
| 3 | AVL ITALIA | 21 | IAV GMBH |
| 4 | AUTOMOBILI LAMBORGHINI SPA | 22 | IMAGINEERING, INC. |
| 5 | BP | 23 | JOHNSON MATTHEY PLC |
| 6 | CAMBUSTION | 24 | MAGNETI MARELLI POWERTRAIN |
| 7 | BOSCH (CENTRO STUDI COMPONENTI PER VEICOLI S.P.A.) | 25 | MODELWAY SRL |
| 8 | CNH INDUSTRIAL | 26 | NESTE CORPORATION |
| 9 | CONTINENTAL AUTOMOTIVE SYSTEMS | 27 | RENAULT |
| 10 | CONVERGENT SCIENCE GMBH | 28 | RICARDO UK LTD |
| 11 | DELPHI DIESEL SYSTEMS | 29 | ROBERT BOSCH GMBH |
| 12 | ELDOR | 30 | SHELL GLOBAL SOLUTIONS (UK) |
| 13 | EMAK SPA | 31 | SIAD |
| 14 | ENI SPA | 32 | SIGMA ENGINEERING SRL |
| 15 | FCA | 33 | TOYOTA EUROPE |
| 16 | FERRARI AUTO | 34 | TSI |
| 17 | FEV GMBH | 35 | VOLKSWAGEN AG |
| 18 | FORD AUS- UND WEITERBILDUNG | 36 | VOLVO CAR CORPORATION |

RESEARCH CENTERS / LABORATORIES / ASSOCIATIONS

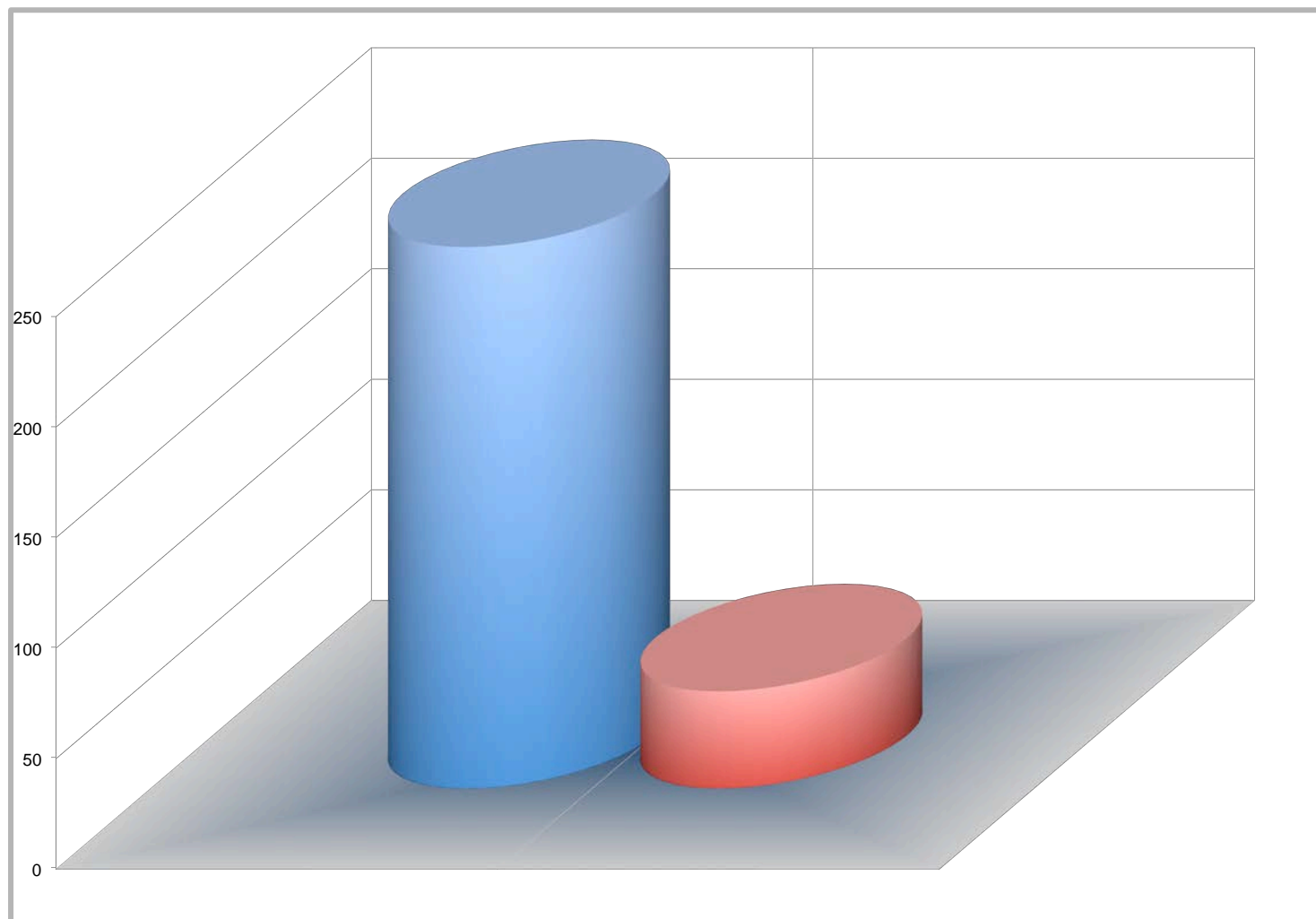
| | |
|----|---|
| 1 | AEEDA/VERT |
| 2 | AIST |
| 3 | ARGONNE NATIANAL LABORATORY |
| 4 | CITY OF MISSISSAUGA |
| 5 | EMPA DÜBENDORF |
| 6 | ENEA |
| 7 | FKFS |
| 8 | IFPEN |
| 9 | ISTITUTO MOTORI - CNR |
| 10 | JOINT RESEARCH CENTRE - EUROPEAN COMMISSION |
| 11 | OAK RIDGE NATIONAL LAB |
| 12 | SAE INTERNATIONAL |
| 13 | SANDIA NATIONAL LABORATORIES |
| 14 | SOUTHWEST RESEARCH INSTITUTE |

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EUROPEAN PARTICIPANTS 245
EUROPEAN COUNTRIES 17

NON-EUROPEAN PARTICIPANTS 44
NON EUROPEAN COUNTRIES 7

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EUROPEAN PARTICIPANTS 245

EUROPEAN COUNTRIES 17

| <u>COUNTRY</u> | <u>N° of PAX</u> |
|----------------|------------------|
| AUSTRIA | 6 |
| BELGIUM | 3 |
| CROATIA | 1 |
| CZECH REPUBLIC | 3 |
| DENMARK | 1 |
| ESTONIA | 1 |
| FINLAND | 1 |
| FRANCE | 17 |
| GERMANY | 33 |
| GREECE | 1 |
| ITALY | 127 |
| NORWAY | 1 |
| SPAIN | 2 |
| SWEDEN | 20 |
| SWITZERLAND | 7 |
| TURKEY | 1 |
| UNITED KINGDOM | 20 |

NON EUROPEAN PARTICIPANTS 44

NON EUROPEAN COUNTRIES 7

| <u>COUNTRY</u> | <u>N° of PAX</u> |
|--------------------------|------------------|
| ALGERIA | 1 |
| AUSTRALIA | 2 |
| CANADA | 1 |
| INDIA | 2 |
| JAPAN | 5 |
| REPUBLIC OF KOREA | 6 |
| UNITED STATES OF AMERICA | 27 |

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PLENARY LECTURES

Isotta Cerri, Toyota Europe (Belgium)

Toyota Fuel cell vehicle: achievements and challenges

Zoran Filipi, Clemson University (USA)

Overcoming HCCI Technology Barriers: Management of Fuel Variability and In-cylinder Thermal Environment

Gilles Hardy, CNH Industrial (Switzerland)

Heavy Duty Diesel Engines Technology Roadmap: Review of last decade technical developments and possibilities to achieve a high brake thermal efficiency in the near future

Keniciro Ikeya, Honda (Japan)

Thermal Efficiency Enhancement of Gasoline Engine

Bengt Johansson, Lund University (Sweden)

Towards High Efficiency Engine – THE engine

Henning Lohse-Busch, Argonne National Laboratory (USA)

Vehicle Electrification Increases Efficiency and Consumption Sensitivity

Joachim Paul, Bosch (Germany)

Bosch Diesel Systems beyond Fuel Injection & Exhaust Gas Treatment: Air System and Hybridization

Chris Powell, Argonne National Laboratory (USA)

X-ray Diagnostics for Fuel Injection and Sprays

Alberto Vassallo, GM Powertrain (Italy)

Combustion System Design and Development Process for Modern Automotive Diesel Engines

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| | TITLE | NAME | SURNAME | AFFILIATION | COUNTRY |
|----|-------|------------|------------|---|--------------------------|
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| 2 | Dr. | Irufan | AHMED | University of Cambridge | United Kingdom |
| 3 | Mr. | Shashikant | AITHAL | Argonne National Laboratory | United States Of America |
| 4 | Prof. | Pavlos | ALEIFERIS | University College London | United Kingdom |
| 5 | Dr. | Guillaume | ALIX | IFPEN | France |
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| 8 | Prof. | Oivind | ANDERSSON | Lund University | Sweden |
| 9 | Prof. | Ivan | ARSIE | University of Salerno | Italy |
| 10 | Dr. | Fabio | AURIEMMA | Tallinn University of Technology | Estonia |
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| 21 | Mr. | Andreas | BEHN | Hamburg University of Technology | Germany |
| 22 | Eng | Giacomo | BELGIORNO | University of Naples 'Parthenope' | Italy |
| 23 | Prof. | Georgios | BERGELES | City University of London | United Kingdom |
| 24 | Eng. | Daniele | BISTOLFI | AVL ITALIA | Italy |
| 25 | Prof. | Katarzyna | BIZON | University of Sannio | Italy |

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|-------|-------|----------------|-------------|--|--------------------------|
| 26 | Eng. | Giovanni | BONANDRINI | Magneti Marelli Powertrain | Italy |
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| 28 | Dr. | Mirko | BOVO | Volvo Car Corporation | Sweden |
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| 31 | Mr. | Sebastiano | BREDA | University of Modena and Reggio Emilia | Italy |
| 32 | Mr. | Jochen | BREGAR | University Kassel | Germany |
| 33 | Prof. | Alain | BRILLARD | University of Mulhouse | France |
| 34 | Prof. | Dieter | BRÜGGEMANN | Universität Bayreuth | Germany |
| 35 | Eng. | Andrea | BUSINARO | University of Bologna | Italy |
| 36 | Dr | Diego | CACCIATORE | Automobili Lamborghini SPA | Italy |
| 37 | Prof. | Maria Cristina | CAMERETTI | University of Naples Federico II | Italy |
| 38 | Prof. | Giuseppe | CANTORE | University of Modena e Reggio Emilia | Italy |
| 39 | Prof. | Massimo | CARDONE | University of Naples Federico II | Italy |
| 40 | Dr | Antonio Paolo | CARLUCCI | Università del Salento | Italy |
| 41 | Mr. | Eugenio | CARUGATI | ELDOR | Italy |
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| 43 | Eng | Andrea | CAVICCHI | Università di Perugia | Italy |
| 44 | Prof. | Nicolo | CAVINA | University of Bologna | Italy |
| 45 | Mrs. | Isotta | CERRI | Toyota Europe | Belgium |
| 46 | Mr. | Christophe | CHAILLOU | Aramco | France |
| 47 | Dr | Alain | CHARLET | University of Orléans | France |
| 48 | Dr. | Marco | CHIODI | FKFS - Stuttgart | Germany |
| 49 | Dr. | Stephen | CIATTI | Argonne National Laboratory | United States Of America |
| 50 | Prof. | Gaetano | CONTINILLO | University of Sannio | Italy |

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|-------|-------|------------|-----------------------------|--------------------------------------|--------------------------|
| 51 | Mr. | Richard | CORNWELL | Ricardo UK Ltd | United Kingdom |
| 52 | Prof. | Enrico | CORTI | University of Bologna | Italy |
| 53 | Eng. | Michela | COSTA | Istituto Motori - CNR | Italy |
| 54 | Eng. | Andrea | CRICCHIO | University of Salerno | Italy |
| 55 | Dr. | Alessandro | D'ADAMO | University of Modena e Reggio Emilia | Italy |
| 56 | Dr. | Danilo | D'AGOSTINO | University of Naples Federico II | Italy |
| 57 | Dr. | Gregory | DAVIS | Kettering University | United States Of America |
| 58 | Dr. | Vincenzo | DE BELLIS | University of Naples Federico II | Italy |
| 59 | Dr. | Luigi | DE SIMIO | Istituto Motori - CNR | Italy |
| 60 | Eng. | Nicola | DEL GIACOMO | Istituto Motori - CNR | Italy |
| 61 | Dr. | Livia | DELLA RAGIONE | Istituto Motori - CNR | Italy |
| 62 | Dr. | Davide | DI BATTISTA | University of L'Aquila | Italy |
| 63 | Dr. | Gabriele | DI BLASIO | Istituto Motori - CNR | Italy |
| 64 | Eng. | Silvana | DI IORIO | Istituto Motori - CNR | Italy |
| 65 | Dr. | Rocco | DI LEO | University of Salerno | Italy |
| 66 | Dr. | Panayotis | DIMOPOULOS EGGENSCHWILER | EMPA Dübendorf | Switzerland |
| 67 | Dr. | Elia | DISTASO | Politecnico di Bari | Italy |
| 68 | Mr. | Gerben | DOORNBOS | Chalmers Technical University | Sweden |
| 69 | Eng | Giulia | DRAGONE | FEV ITALIA | Italy |
| 70 | Mrs. | Séverine | DUBROECQ | TSI | France |
| 71 | Mr. | Matthew | DUCKHOUSE | Cambustion | United Kingdom |
| 72 | Dr. | Alessio | DULBECCO | IFPEN | France |
| 73 | Dr. | Scott | EAKLE | Southwest Research Institute | United States Of America |
| 74 | Prof. | Peter | EILTS | Technical University Braunschweig | Germany |
| 75 | Mr. | Isaac | EKOTO | Sandia National Laboratories | United States Of America |

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|-------|-------|---------------|-------------|--|--------------------------|
| 76 | Dr. | Mohamed | EL MORSY | Czech Technical University | Czech Republic |
| 77 | Eng. | Caner | ERDOGAN | Istanbul Technical University | Turkey |
| 78 | Mr. | Simon | FAGG | Ricardo UK Ltd | United Kingdom |
| 79 | Prof. | Giacomo | FALCUCCI | Università di Napoli Parthenope | Italy |
| 80 | Dr. | Stefania | FALFARI | University of Bologna | Italy |
| 81 | Mr. | Daniele | FARRACE | ETH Zurich | Switzerland |
| 82 | Prof. | Alessandro | FERRARI | Politecnico di Torino | Italy |
| 83 | Prof. | Zoran | FILIPI | Clemson University | United States Of America |
| 84 | Dr. | Roberto | FINESSO | Politecnico di Torino | Italy |
| 85 | Prof. | Debora | FINO | Politecnico di Torino | Italy |
| 86 | Eng. | Rino | FLOTTA | AVL ITALIA | Italy |
| 87 | Dr. | Stefano | FONTANESI | University of Modena and Reggio Emilia | Italy |
| 88 | Prof. | Fabrice | FOUCHER | Université d'Orléans | France |
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| 90 | Eng. | Wolfgang | FRIEDRICH | Robert Bosch GmbH | Germany |
| 91 | Dr. | Maria Rosaria | GABALLO | Centro Studi Componenti per veicoli S.p.A. - BOSCH | Italy |
| 92 | Eng. | Vincenzo | GAGLIARDI | EMAK SpA | Italy |
| 93 | Prof. | Marco | GAMBINI | University Tor Vergata | Italy |
| 94 | Mr. | Pablo | GARCIA | Lund University | Sweden |
| 95 | Dr. | Antonio | GARCÍA | Universitat Politècnica de València | Spain |
| 96 | Mr | Michele | GENTILE | FCA | Italy |
| 97 | Dr. | Golnoush | GHIASI | Cambridge University | United Kingdom |
| 98 | Eng. | Veniero | GIGLIO | Istituto Motori - CNR | Italy |
| 99 | Mr | Omero | GORRESE | SIAD | Italy |
| 100 | Dr. | Claus | GÖRSMANN | Johnson Matthey Plc | United Kingdom |

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|-------|-------|----------------|-------------------|---|--------------------------|
| 101 | Dr, | Theodoros | GRIGORATOS | Joint Research Centre - European Commission | Italy |
| 102 | Eng. | Chiara | GUIDO | Istituto Motori - CNR | Italy |
| 103 | Dr. | Gilles | HARDY | CNH Industrial | Switzerland |
| 104 | Dr. | Stina | HEMDAL | Chalmers University of Technology | Sweden |
| 105 | Dr. | Cary | HENRY | Southwest Research Institute | United States Of America |
| 106 | Dr. | Randy | HESSEL | University of Wisconsin | United States Of America |
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| 109 | Dr. | Mark | HOFFMAN | Clemson University | United States Of America |
| 110 | Prof. | Günter | HOHENBERG | FKFS | Germany |
| 111 | Dr. | Christopher | HONG | Shell Global Solutions (UK) | United Kingdom |
| 112 | Mr. | Tim | IACKMANN | Chalmers University of Technology | Sweden |
| 113 | Eng. | Sabato | IANNACCONE | Istituto Motori - CNR | Italy |
| 114 | Dr | Nando | IANNICCA | City of Missisauga | Canada |
| 115 | Dr. | Yuji | IKEDA | Imagineering, inc. | Japan |
| 116 | Dr. | Kenichiro | IKEYA | Honda R&D Co.,Ltd. | Japan |
| 117 | Mr. | Gabriel | INGESSON | Lund University | Sweden |
| 118 | Eng. | Paolo | IODICE | University of Naples Federico II | Italy |
| 119 | Mr. | Murli | IYER | SAE International | United States Of America |
| 120 | Prof. | Elio | JANNELLI | University of Naples Parthenope | Italy |
| 121 | Prof. | Marcis | JANSONS | Wayne State University | United States Of America |
| 122 | Mrs. | Jessica | JESSICA DAHLSTRÖM | Lund University | Sweden |
| 123 | Mr. | Lars Christian | JOHANSEN | Chalmers University of Technology | Sweden |
| 124 | Mr | Anders | JOHANSSON | Chalmers University of Technology | Sweden |
| 125 | Prof. | Bengt | JOHANSSON | Lund University | Sweden |

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|-------|-------|------------------|-------------|--|--------------------------|
| 126 | Mr. | Gyeok | JUNG | The Attached Institute of ETRI | Republic of Korea |
| 127 | Prof. | Gautam | KALGHATGI | Saudi Aramco | United States Of America |
| 128 | Dr. | Imad | KHALEK | Southwest Research Institute | United States Of America |
| 129 | Eng. | Maziar | KHOSRAVI | Ford Aus- und Weiterbildung e. V. | Germany |
| 130 | Mr. | Donghoon | KIM | KAIST | Republic of Korea |
| 131 | Mr. | Gyujin | KIM | Seoul National University | Republic of Korea |
| 132 | Dr | Yongrae | KIM | Korea Institute of Machinery & materials | Republic of Korea |
| 133 | Mrs. | Borislav | KLARIN | AVL-AST d.o.o | Croatia |
| 134 | Mr. | Christian Daniel | KOCH | Technische Universität München | Germany |
| 135 | Mr. | Abdul Rahman | KODALI | IIT MADRAS | India |
| 136 | Prof | Sage | KOKJOHN | University of Wisconsin | United States Of America |
| 137 | Dr. | Sanghoon | KOOK | University of New South Wales | Australia |
| 138 | Mr. | David | KOVACS | Technische Universität Braunschweig | Germany |
| 139 | Dr. | Vesselin | KRASTEV | SCIRE | Italy |
| 140 | Mr. | Markku | KURONEN | Neste Corporation | Finland |
| 141 | Mr. | Thomas | LAIBLE | RWTH Aachen | Germany |
| 142 | Mr | Marco | LAPERUTA | SIAD | Italy |
| 143 | Dr. | Seokhwan | LEE | Korea Institute of Machinery & Materials | Republic of Korea |
| 144 | Eng. | Jacques | LEMAIRE | AEEDA/VERT | France |
| 145 | Mr. | Marco | LEONETTI | FKFS | Germany |
| 146 | Mr. | Zheming | LI | Lund University | Sweden |
| 147 | Mrs. | Yujun | LIAO | EMPA Dübendorf | Switzerland |
| 148 | Dr. | Henning | LOHSE-BUSCH | Argonne National Laboratory | United States Of America |
| 149 | Dr. | Ludovica | LUISE | Istituto Motori - CNR | Italy |
| 150 | Dr. | Agnese | MAGNO | Istituto Motori - CNR | Italy |

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|-------|-------|--------------|-------------|---|--------------------------|
| 151 | Dr. | Alain | MAIBOOM | Ecole Centrale de Nantes | France |
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| 159 | Prof. | Fadila | MAROTEAUX | University of Versailles | France |
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| 162 | Mr. | Giorgio | MARTINI | Joint Research Centre - European Commission | Italy |
| 163 | Dr. | Massimo | MASI | University of Padova | Italy |
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| 165 | Prof. | Enrico | MATTARELLI | University of Modena e Reggio Emilia | Italy |
| 166 | Prof. | Fabian | MAUSS | Brandenburg University of Technology | Germany |
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| 168 | Dr. | Giovanni | MECCARIELLO | Istituto Motori - CNR | Italy |
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| 176 | Eng. | Alessandro | MONTANARO | Istituto Motori - CNR | Italy |
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