

ICE2019

14th International Conference
on Engines & Vehicles

**FINAL
REPORT**



18
Oral
Presentation

15%
of Papers
published on
SAE journal

186
Papers
presented

42
Companies

64
Universities

21
Research
Center

220
Abstracts
submitted

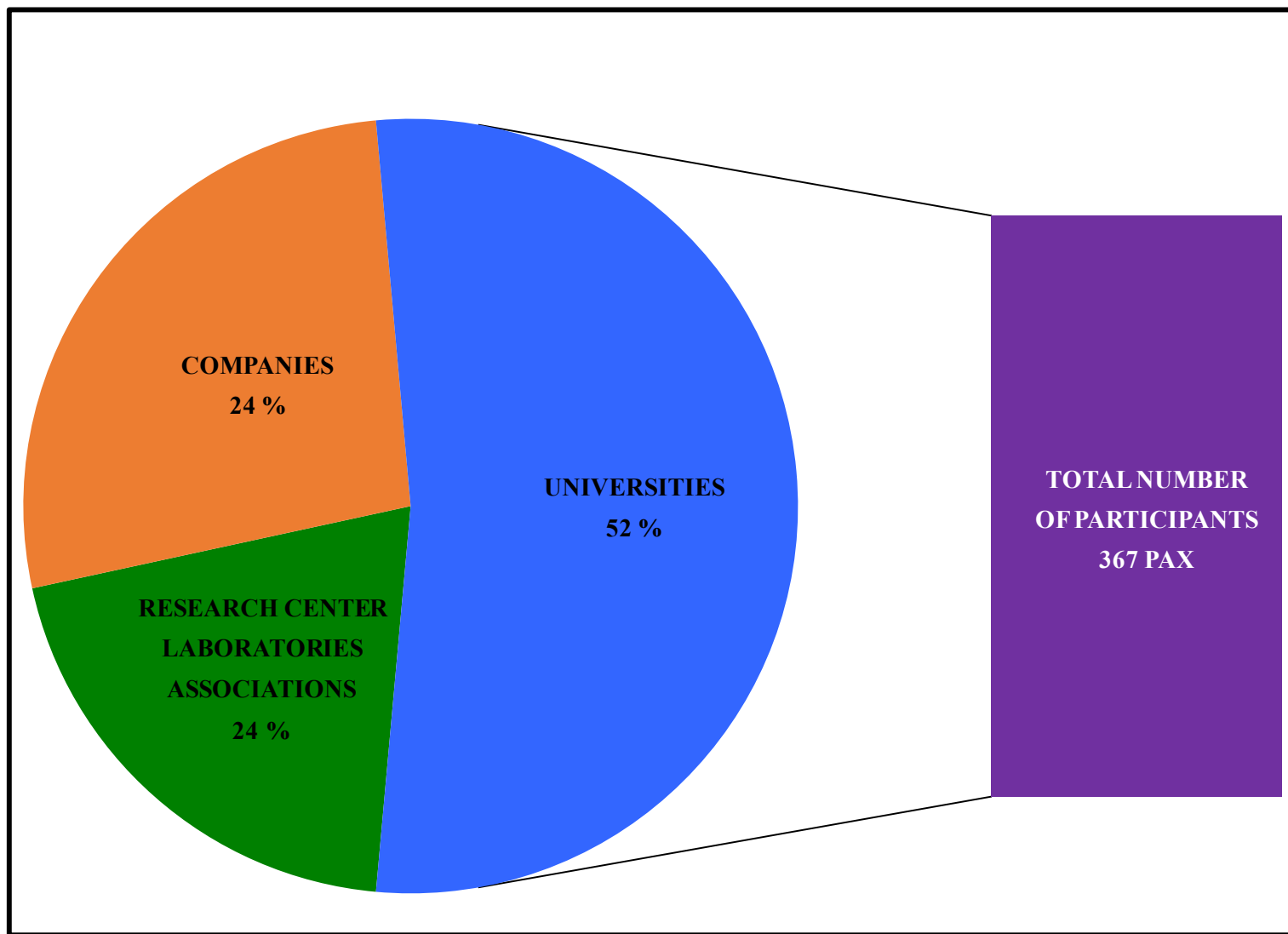
367
Registered
Participants

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An SAE International Section

PARTICIPANTS SORTED by AFFILIATION

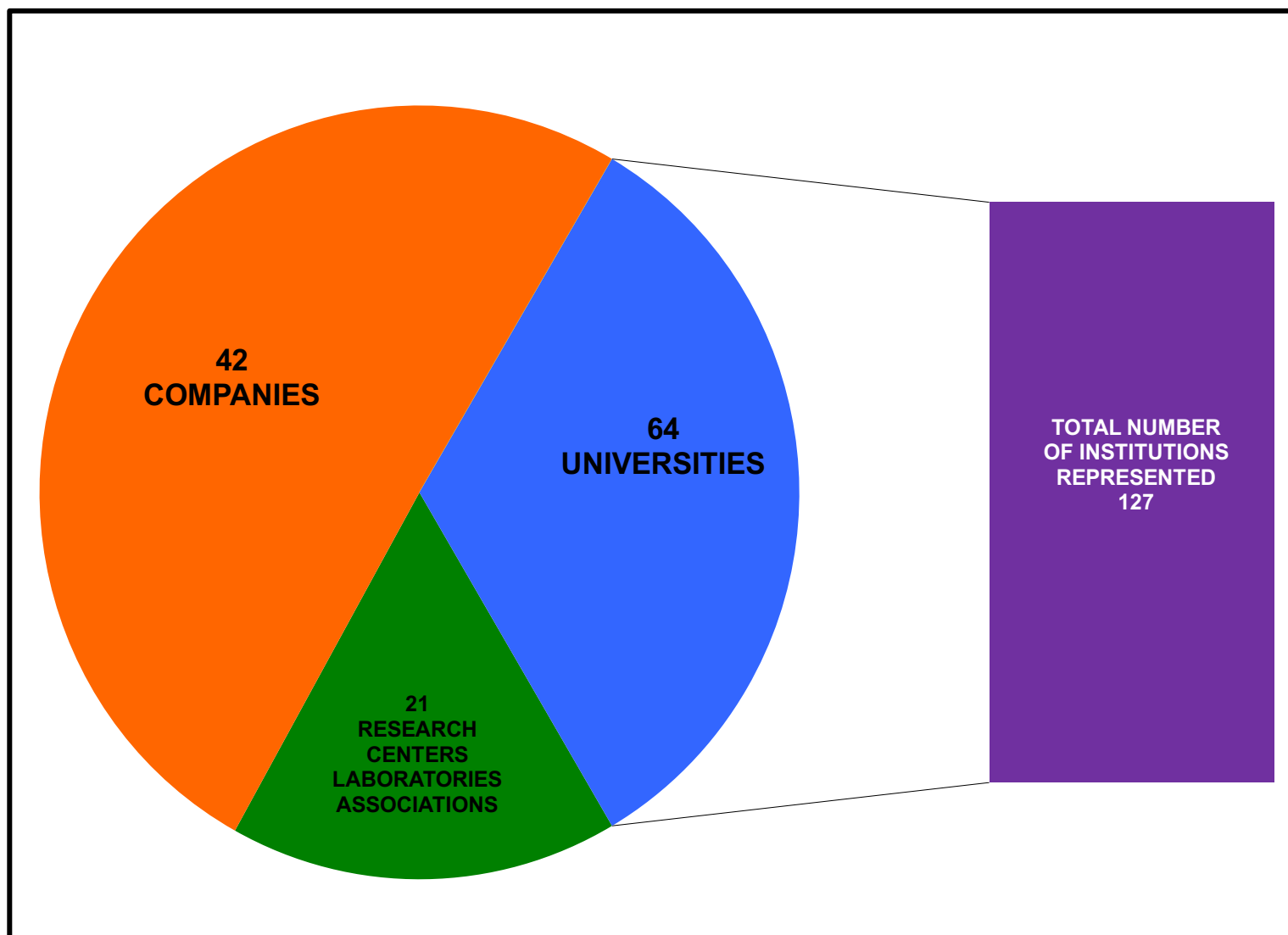


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INSTITUTIONS ATTENDING THE CONFERENCE



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1	AACHEN UNIVERSITY	23	POLITECNICO DI TORINO (TECHNICAL UNIVERSITY)	45	UNIVERSITY OF NAPLES 'PARTHENOPE'
2	ARISTOTLE UNIVERSITY	24	RWTH AACHEN UNIVERSITY	46	UNIVERSITY OF NAPLES "FEDERICO II"
3	BERN UNIVERSITY OF APPLIED SCIENCES BFH	25	SEOUL NATIONAL UNIVERSITY	47	UNIVERSITY OF NORTH FLORIDA
4	BRUNEL UNIVERSITY LONDON	26	TECHNICAL UNIVERSITY BRAUNSCHWEIG	48	UNIVERSITY OF NOTTINGHAM
5	CHALMERS UNIVERSITY OF TECHNOLOGY	27	TECHNICAL UNIVERSITY OF BERLIN	49	UNIVERSITY OF ORLÉANS
6	CHIBA UNIVERSITY	28	TECHNICAL UNIVERSITY OF DRESDEN	50	UNIVERSITY OF OXFORD
7	CLEMSON UNIVERSITY	29	UNF/FAY ENGINEERING	51	UNIVERSITY OF PERUGIA
8	CMT - UNIVERSITY OF VALÈNCIA	30	UNIVERSITY OF BASILICATA	52	UNIVERSITY OF ROMA - TOR VERGATA
9	COVENTRY UNIVERSITY	31	UNIVERSITY OF BATH	53	UNIVERSITY OF ROME "NICCOLÒ CUSANO"
10	CZECH TECHNICAL UNIVERSITY IN PRAGUE	32	UNIVERSITY OF BAYREUTH	54	UNIVERSITY OF SALENTO
11	ETH ZURICH	33	UNIVERSITY OF BIRMINGHAM	55	UNIVERSITY OF SALERNO
12	FHNW - UNIVERSITY OF APPLIED SCIENCES AND ARTS NORTHWESTERN	34	UNIVERSITY OF BOLOGNA	56	UNIVERSITY OF STUTTGART
13	GHENT UNIVESITY	35	UNIVERSITY OF BRIGHTON	57	UNIVERSITY OF THESSALY
14	HIROSHIMA UNIVERSITY	36	UNIVERSITY OF CALABRIA	58	UNIVERSITY OF VERSAILLES
15	ILLINOIS INSTITUTE OF TECHNOLOGY	37	UNIVERSITY OF CAMPANIA "VANVITELLI"	59	UNIVERSITY OF WESTERN MACEDONIA
16	KAIST - KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY	38	UNIVERSITY OF GENOA	60	UNIVERSITY OF ZAGREB
17	KAUST - KING ABDULLAH UNIVERSITY OF SCIENCE & TECHNOLOGY	39	UNIVERSITY OF KAISERSLAUTERN (TUK)	61	VIENNA TECHNICAL UNIVERSITY
18	KTH ROYAL INSTITUTE OF TECHNOLOGY	40	UNIVERSITY OF KASSEL - FB15	62	W-TECH QUEENS UNIVERSITY BELFAST
19	LUND UNIVERSITY	41	UNIVERSITY OF L'AQUILA	63	WASEDA UNIVERSITY
20	NTNU: NORWEGIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY	42	UNIVERSITY OF MALTA	64	WEST VIRGINIA UNIVERSITY
21	POLITECNICO DI BARI (TECHNICAL UNIVERSITY)	43	UNIVERSITY OF MINNESOTA		
22	POLITECNICO DI MILANO (TECHNICAL UNIVERSITY)	44	UNIVERSITY OF MODENA AND REGGIO EMILIA		

UNIVERSITIES

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1	ACHATES POWER	22	IAV GMBH
2	AKKA BELGIUM	23	ISUZU MOTORS GERMANY GMBH
3	AVL ITALIA S.R.L.	24	KOHLER ENGINES
4	BORGWARNER TURBO SYSTEMS ENGINEERING GMBH	25	LINDE GAS ITALIA
5	CF3000 SRL	26	LUCHSINGER S.R.L.
6	CONTINENTAL EMITEC GMBH	27	MAGNETI MARELLI SPA
7	CPT ITALY SRL	28	MAHLE INTERNATIONAL GMBH
8	DACA-I	29	MCLAREN AUTOMOTIVE LTD
9	DAIMLER AG	30	OFFICINE METALLURGICHE G.CORNAGLIA
10	DEANET SRL SAE ITALY AGENCY	31	PETRONAS LUBRICANTS ITALY
11	DOLPHIN N2 LIMITED	32	POWERTECH ENGINEERING S.R.L.
12	DR. ING. H. C. F. PORSCHE AG	33	RENAULT
13	EXOTHERMIA SA	34	RICARDO UK LTD
14	FCA ITALY SPA	35	SCANIA
15	FERRARI SPA	36	SHOT TO SHOT ENGINEERING SRL
16	FEV EUROPE GMBH	37	TELOPS
17	FKFS	38	TEORESİ S.P.A.
18	FORD WERKE GMBH	39	TOYOTA MOTOR EUROPE
19	FPT INDUSTRIAL S.P.A.	40	TULA TECHNOLOGY
20	GENERAL MOTORS - GLOBAL PROPULSION SYSTEMS	41	VOLVO CAR CORPORATION
21	GT - GAMMA TECHNOLOGIES	42	HYUNDAI MOTOR COMPANY

COMPANIES

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- | | |
|----|---|
| 1 | AECC |
| 2 | APTL/CERTH |
| 3 | ARGONNE NATIONAL LABORATORY |
| 4 | CONSORZIO S.C.I.R.E. |
| 5 | DEPARTMENT OF ENERGY (DOE) |
| 6 | EMPA |
| 7 | ENGIE LAB CRIGEN |
| 8 | IFP ENERGIES NOUVELLES |
| 9 | ISTITUTO MOTORI - CNR |
| 10 | JAPAN AUTOMOBILE RESEARCH INSTITUTE |
| 11 | JOINT RESEARCH CENTRE |
| 12 | KARLSRUHE INSTITUTE OF TECHNOLOGY |
| 13 | KIMM - KOREA INSTITUTE OF MACHINERY & MATERIALS |
| 14 | LRGP CNRS-UL |
| 15 | NEW A.C.E. INSTITUTE CO., LTD. |
| 16 | OAK RIDGE NATIONAL LABORATORY ORNL |
| 17 | ROYAL IHC |
| 18 | SAE INTERNATIONAL |
| 19 | SOUTHWEST RESEARCH INSTITUTE |
| 20 | UTM LOCARTIC |
| 21 | WISCONSIN ENGINE RESEARCH CONSULTANTS |

**RESEARCH
CENTERS
LABORATORIES
ASSOCIATIONS**

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TOT NUMBER OF ATTENDEES	367
Number of countries represented	12

<u>COUNTRY</u>	<u>N° of PAX</u>
AUSTRIA	5
BELGIUM	6
CANADA	1
CROATIA	2
CZECH REPUBLIC	1
FRANCE	11
GERMANY	34
GREECE	10
ITALY	172
JAPAN	17
MALAYSIA	1
MALTA	1
NETHERLANDS	2
NORWAY	1
REPUBLIC OF KOREA	10
SAUDI ARABIA	12
SPAIN	4
SWEDEN	14
SWITZERLAND	13
UNITED KINGDOM	26
UNITED STATES OF AMERICA	24

**COUNTRIES
REPRESENTED**

PLENARY LECTURES

Michael Berube, DoE Vehicle Technologies Office Director | United States of America

New Mobility, New Powertrains and the Role of the IC Engine

Maria Grazia Lisbona, FCA Group | Italy

Propulsion system for future mobility FCA view

Gianpiero Mastinu, Coordinator of the Scientific Council of the Cluster | Italy

The Italian Technology Cluster on Sustainable Mobility: a tool for Made in Italy innovation

Fabien Redon, Executive Vice President and Chief Technical Officer at Achates Power | United States of America

The Engine Imperative

Zissis Samaras, Aristotle University | Greece

Automotive Emissions Control: Challenges from real world performance regulatory requirements

Marc Sens, Senior Vice President Advanced Development Powertrain | Germany

The path to CO₂-neutral mobility in 2050

David Schutt CEO of SAE Enterprise | United States of America

Donatus Wichelhaus, Head of Race Engine Development at Porsche | Germany

The Porsche high efficient Drive Train

THE PLENARY LECTURES OF OUR KEYNOTE SPEAKERS ARE AVAILABLE FOR DOWNLOAD AT THIS [LINK](#)

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invites you to save the date for the

ICE2021

**15th International Conference
on Engines & Vehicles**

**12th - 16th September, 2021
Capri · Naples · Italy**