

L'Industria incontra Giovani Ingegneri: Sfide ed Opportunità per Giovani Ingegneri e Aziende



Aziende presenti nella corrente edizione:



Gli interessati ai Colloqui sono invitati a Inviare il proprio Curriculum a 1year1day@simulationteam.com

INVITO A TUTTI GLI STUDENTI DI INGEGNERIA

Join
MIPET

Invito Esteso
A tutti gli Studenti
di Informatica

www.itim.unige.it/mipet/job

Meeting Program

22 novembre, 2017 - 9:30 am - 18:00 pm
Piano Nobile, Villa Cambiaso - via Montalegretti, 1

9:30	Benvenuto Prof. Agostino G. Bruzzone
10:00	Eccellenza e Competitività Oggi
10:30	Responsabili di Aziende Leader a livello Mondiale
12:00	Sfide e le Opportunità per Aziende e Giovani Ingegneri
12:30	Incontro diretto con le Aziende e Colloqui
12:45	Break
13:00	Meeting with Companies & Campus Interviews
18:00	Chiusura

Industries
meet Young
Engineers

1 Anno di
Colloqui in
1 solo
Giorno



Accesso gratuito e libero, per ulteriori informazioni,
prego contattare 1year1day@simulationteam.com
www.itim.unige.it/cs/plants/1y1d/nov2017

Industrial Plant Business Sector meets with Young Engineers: Challenges and Opportunities for Young Engineers & Companies

People interested in
Campus Interviews are
invited to Send CV to
1year1day@simulationteam.com

**ALL
ENGINEERING
STUDENTS
ARE INVITED**

Join
MIPET

Invite extended
to all Computer Science
and Informatics
Students

www.itim.unige.it/mipet/job

Meeting Program

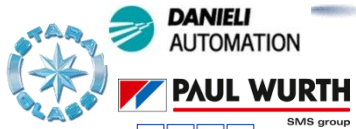
November 22, 2017 9:30 am - 18:00 pm
Piano Nobile, Villa Cambiaso - via Montallegro 1,

9:30 Welcome Prof. Agostino G. Bruzzone
10:00 International Opportunities Today
10:30 Managers from International Major Companies
Student/Company Opportunities & Challenges
12:00 Meeting with Companies & Campus Interviews
12:30 Break
13:00 Meeting with Companies & Campus Interviews
18:00 Closure

Industries
meet Young
Engineers

1 Year of
Interviews
in 1 Single
Day

Companies attending to current
edition :



Free Access, No Registration Fee, for further information
please contact 1year1day@simulationteam.com
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www.itim.unige.it/cs/plants/1y1d/nov2017

Industry & Business meets Young Talents: Challenges and Opportunities for Companies and Young Engineers



Aziende presenti nella corrente
edizione:



DANIELI
AUTOMATION



SMS group



Schindler



Join
MIPET

Prof. Agostino G. Bruzzone

Welcome

per ulteriori informazioni,
prego contattare 1year1day@simulationteam.com
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Genoa University, Polytechnic School & Engineering Faculty

The University of Genoa is one of the oldest in Italy and in the World (founded in 1471 AD), it is located in middle of Italian Riviera.

The students are about 40,000 (about 8,000 new entries), and the Engineering Departments involve around 7,500 students distributed among Genoa Locations and two External Sites: Savona Campus and La Spezia Area

Recently the Polytechnic School was established combining Engineering Faculty and Architecture in order to reinforce the vocation of Genoa University to be an International Leader in Innovative Technologies in a wide spectrum of applications

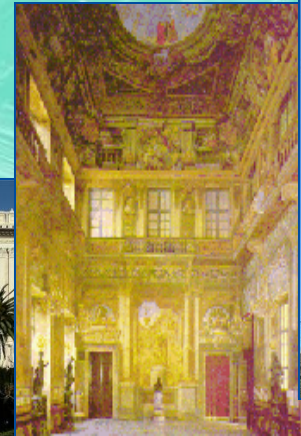
For further Information about the Engineering & University of Genoa:



www.itim.unige.it

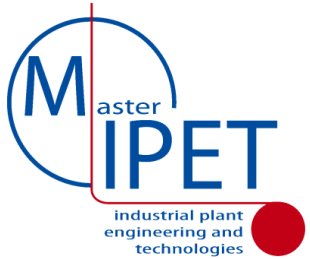
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www.unige.it



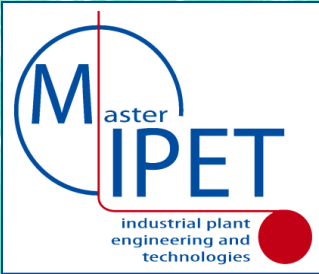


Ordine degli Ingegneri della Provincia di Genova





CONFINDUSTRIA Genova



**CONFINDUSTRIA
Genova
supports
International
Master MIPET
since its begin
and promotes
these initiatives
among Industrial
Community**

Crocco, Confindustria



Intellectual Capital for Future of Engineering

Jack Welch (GE CEO 1981-2001 from \$14 billions market value to over \$410 billions): Globalization has changed us into a company that searches the world, not just to sell or to source, but to find Intellectual Capital: the World's Best Talents and Greatest Ideas



Scientists investigate that which already is; Engineers create that which has never been
Albert Einstein, Physics Nobel Price 1921

Changes around the World

- How it is Changing the Industry & World?
- How Simulation enables to face Risks & Dangers?
- Way Ahead, Challenges and Opportunities



Game

← **2017!** →

Vs.



Reality

Changes around the World

- How it is Changing the Industry & World?
- How Simulation enables to face Risks & Dangers?
- Way Ahead, Challenges and Opportunities
- **To Perish is just a Game Option... or is it Real?**



← 2017! →

Vs.



Opportunities

Threats

Some Open Questions?



- How it is Changing the Industry & World?
- What offers Industrial Engineering?
- Way Ahead, Challenges and Opportunities
- **To Perish is just a Game Option... or is it Real?**



← 2017! →

Vs.

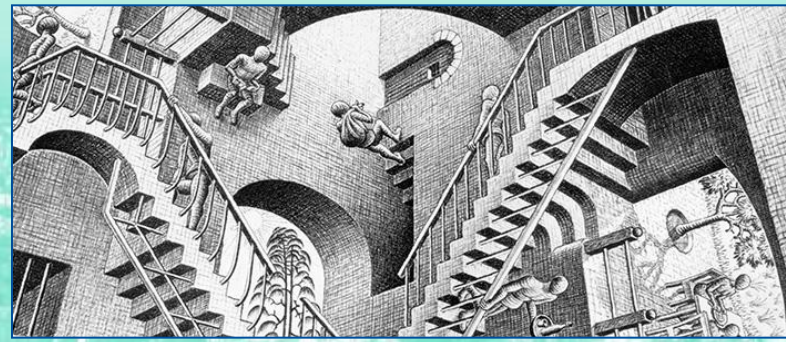


Opportunities

Tianjin Explosion, August 2015, 800 tons Ammonium Nitrate, 173 casualties, 2km range, 9bUSD Ins.Damage

Threats

Today: Living in a Paradox



In 2016:

Uber, the world's Largest Taxi Company,...



owns no Vehicles



Facebook, the most popular media owner,...



UBER

creates no content



Alibaba, the most valuable retailer,...



has no inventory



Airbnb, the largest accomodation provider,...



owns no real estate



Some new way to... Perish!

- 1995 Mercedes from Munich to Denmark, 1600 km
- 1996 Parma University follow lane marks, 1900 km
- 1997 NAHSC, 20 vehicles in I7 San Diego
- 2004 DARPA, failure on running in the Desert
- 2005 Parkshuffle near Rotterdam
- 2007 DARPA, urban challenge won by Chevy CMU
- 2014 Vislab 20' in Rush Time → 30M\$ by Ambarella
- 2016 Daimler AG smart parking in Stuttgart HQs
- 2016 Tesla first Casualty
- 2016 Nutonomy in Singapore, Self Taxi Service
- 2016 Uber testing in Pittsburgh
- 2017 Uber banned in London after Vancouver & Austin

18 millions of Taxi Drivers Worldwide

900'000 Truck Drivers In Italy



200'000 Uber Drivers Worldwide



CMU
DARPA
NAHS

Carnegie Mellon University
Defense Advanced research Projects Agency
National Automated Highway System Consortium
2015 Statistics



Realize Opportunities



Face Risks



Challenges



New Locations...



Freetown, Sierra Leone



Ashgabat, Turkmenistan



Asuncion, Paraguay



Macau, China

..New Opportunities..

...within a Challenging World



Kiev



Kobane

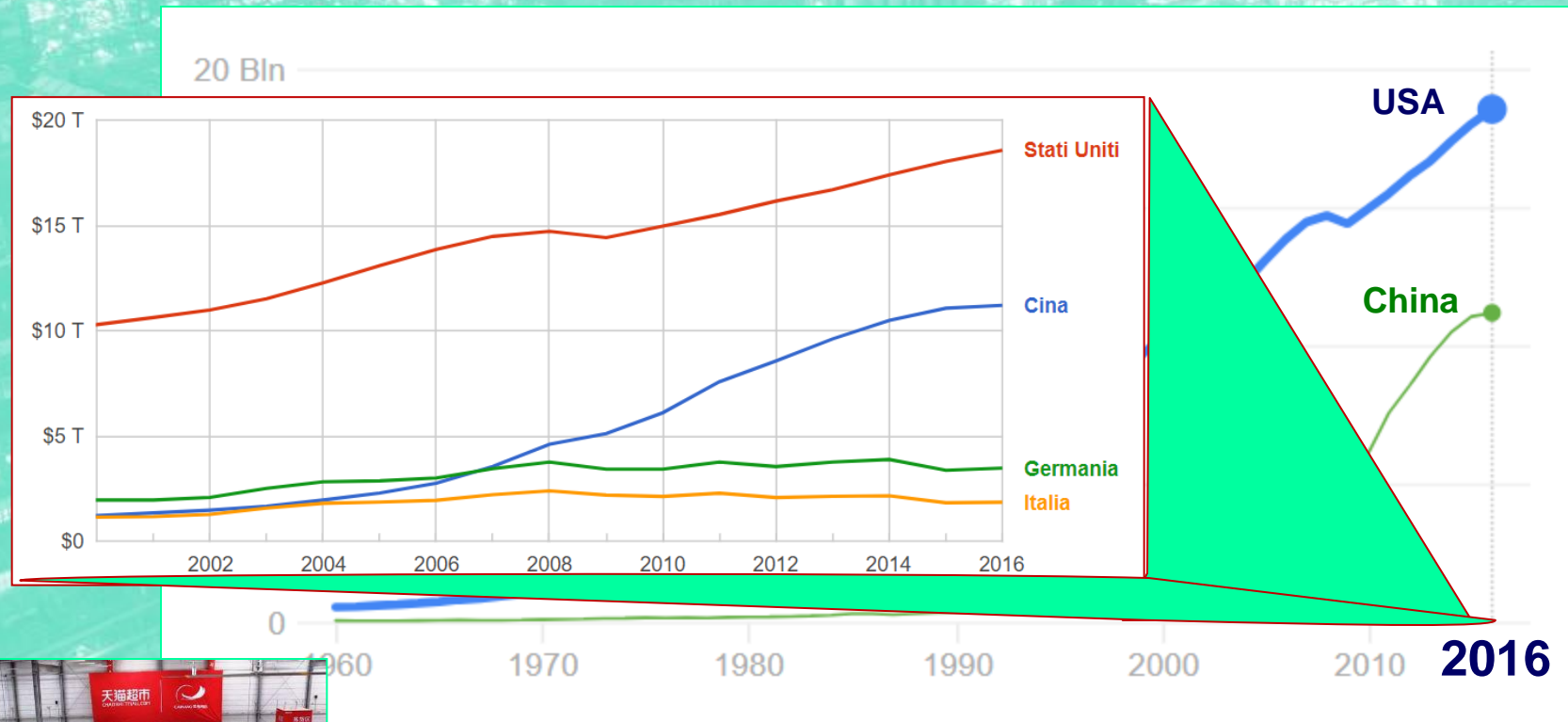


Crisis...

Ops... sorry it was Capsized!

2016 USA GDP 18'570 GUSD

China GDP 11'200 GUSD



Looking Really for You? Yes!



... but you should be... smart... flexible... well prepared... motivated... hard worker... professional... reliable... etc.

They Came from the Outer World



Top Companies are used to accept
CEO from Foreign Countries based
on their capabilities, with an evident
Globalization (2013)



PepsiCo, USA
Revenues 65.5 bUSD
Profits 6.2 bUSD
Indra Nooyi, India



Coca-Cola, USA
Revenues 48.1 bUSD
Profits 9.0 bUSD
Muhtar Kent, Turkey



Nissan, Japan
Revenues 22.7 bUSD
Profits 1.1 bUSD
Carlos Ghosn, Brazil



Dior, France
Revenues 40.9 bUSD
Profits 1.9 bUSD
Sidney Toledano, Morocco



Deutsche Bank, Germany
Revenues 68.5 bUSD
Profits 0.3 bUSD
Anshu Jain, India



Tata Motors, India
Revenues 34.5 bUSD
Profits 1.8 bUSD
Karl Slim, UK

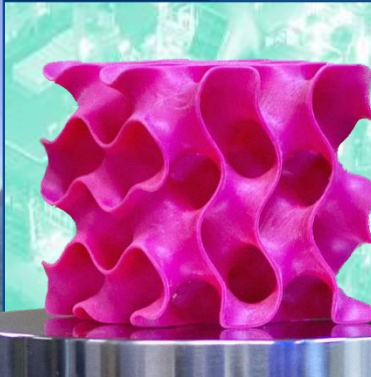
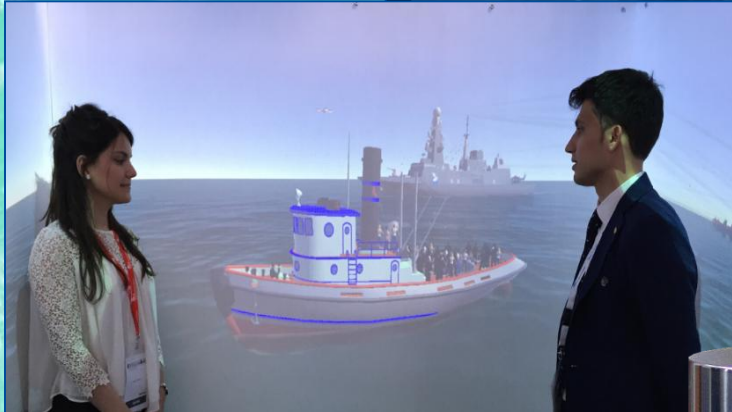
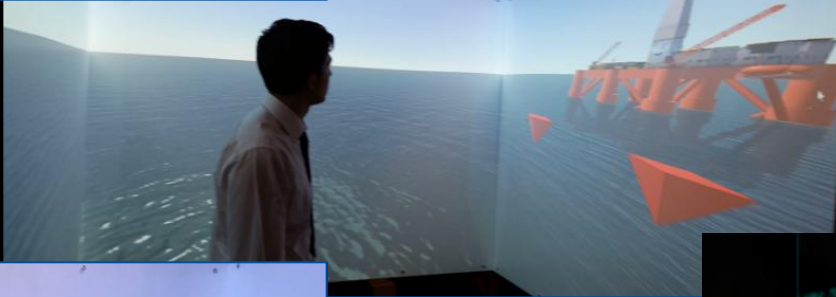
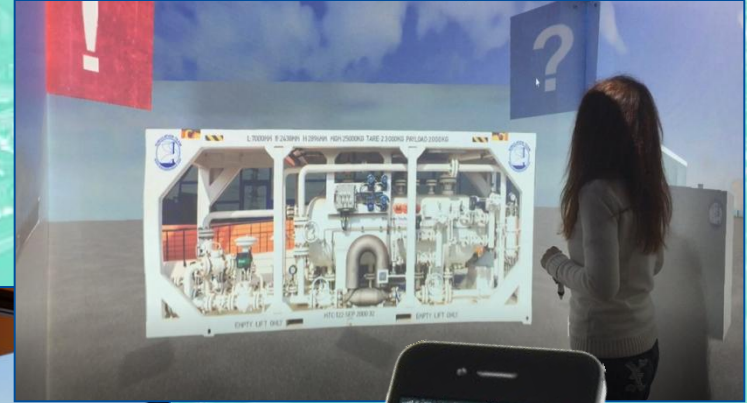


Human Capital is becoming Even more Important

Engineering is providing an unique opportunity to improve the Capabilities and Understanding of high qualified people: Scientists, Researchers, Technicians and Engineers



Enabling Technologies



Modeling, Simulation, AR & VR... in Industrial Plants



The image is a collage illustrating the application of Modeling, Simulation, AR, and VR in industrial plants. The background is a teal-tinted aerial view of an industrial facility. Overlaid on this are several images:

- A VR headset on a person's head, showing a virtual environment.
- A grid of eight small images showing various industrial processes and equipment.
- A group photo of workers in hard hats.
- A group of smiling people, likely students or researchers.
- A tablet displaying a 3D simulation of a factory floor with a ladder and barrels.
- A tablet showing two workers in green uniforms.
- A large monitor displaying a 3D simulation of a factory floor with a grid pattern and a yellow forklift.

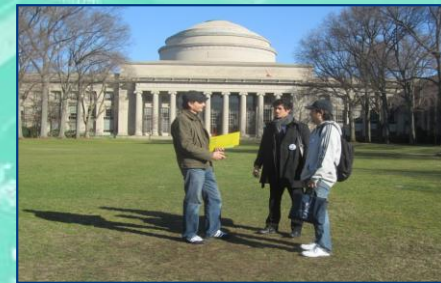
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Impiantistica e Ingegneria a Genova

In Genoa University several groups are active in Industrial Plant Engineering; for instance the Simulation Team MITIM DIME resulted as evolution of the Institute of Technology and Industrial Plant Engineering & Management (ITIM) that was focused on these issues since '60; DIST, DICHEP, DINAEL and other Engineering Departments are also active on these subjects. The Genoa University is involved in several R&D activities on Plant and Process Engineering and also in Undergraduate, Postgraduate and Continuous Education on this area. Simulation Team MITIM DIME for instance co-operates actively with major Excellence Centers World-Wide.





Simulation Team DIME

The Simulation Team - MITIM DIME of *Genoa University* carries out many industrial projects in cooperation with the large corporations and Small and Medium sized Enterprises; some example of recent industrial simulation project are following:

**ENI
Group**

Ansaldo

**LAMCE
Petrobras**

EDA

**Cetena
Fincantieri**

**Fleet Management Planning & Scheduling
Chemical Plant Logistics Optimization**

**Plant Service Management
and Optimization**

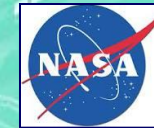
**Oil Platform Simulation
and Augmented Reality**

**Decision Support for
Country Reconstruction Activity Planning**

**Simulation for Life Cycle Assessment
of New Vessels**

Members of MISS are appointed in several positions in simulation community such as:

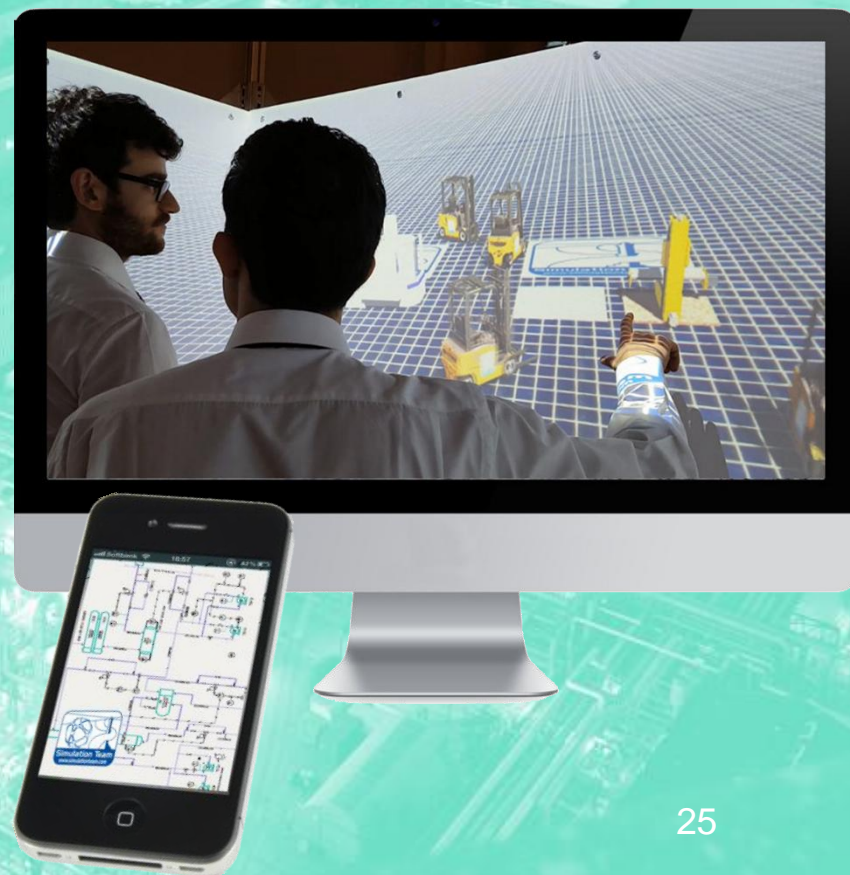
- General Director M&S Net (34 M&S Centers Worldwide)
- President Simulation Team (20 Centers Worldwide)
- Associate Vice President of SCS and Chairman of Technical Chapter
- Member of NATO SAS, MSG, and NIAG



Industry 4.0...

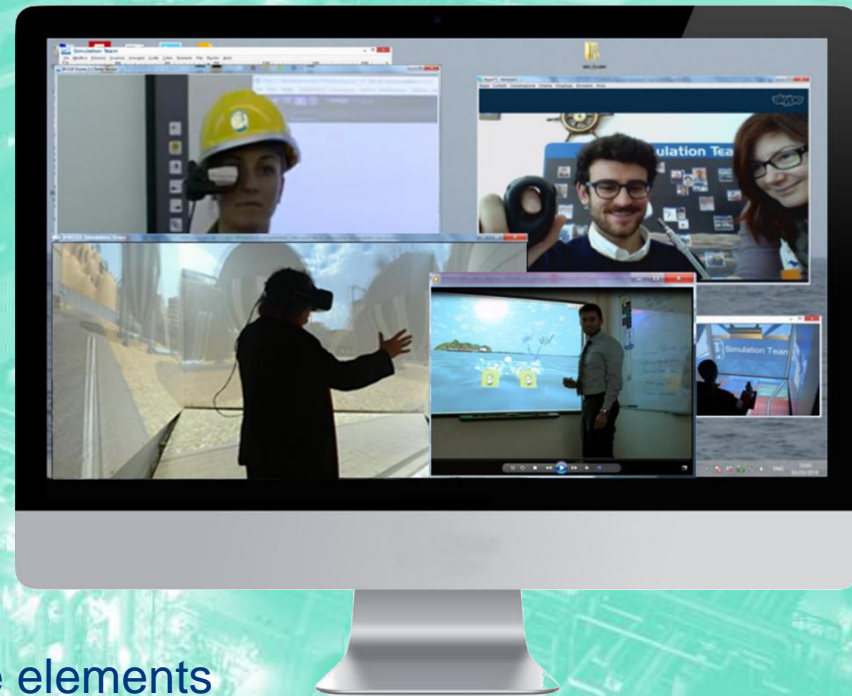
Few definitions clarify how Innovative Technologies enable the Industry 4.0 Paradigm:

- Industry 4.0: is the current Paradigm of Automation and Data Exchange in manufacturing leading to Smart Manufacturing; the idea is to combine concepts such as Cyber-Physical Systems, the Internet of Things, Cloud Computing, Modeling and Simulation, Augment & Virtual Reality, Artificial Intelligence and Intelligent Agents to create a common intuitive framework to control the Industrial Processes



Industry 4.0& Enabling Technologies

- M&S: Modeling and Simulation use the computers to recreate real systems on computers, to experiment them within such virtual environment, to conduct experiments and tests even before the new industrial system is realized, to
- Virtual Reality: is the combined use of Computer Solutions to Immerse the user into a Virtual Framework; currently VR is flexible, working with multiple platforms & I/O (e.g.Smartphones,CAVE, Laptops, CAVE, HDM , Hololens, data gloves, motion, force feedback, etc.)
- Augmented Reality: is a live direct or indirect view of a physical real-world whose elements are augmented by additional information provided by computer programs; in this way it is possible to add data from Dbase, Sensors, Sound, Video, 3D, GPS



Example of Innovative Solution



Simulation

*Simulation for
Optimization
& Alternative
Evaluation
Based on
Intelligent Agents*

Man on the Loop

VR & AR

Real Situation

*Manual &
Automated
Planning*

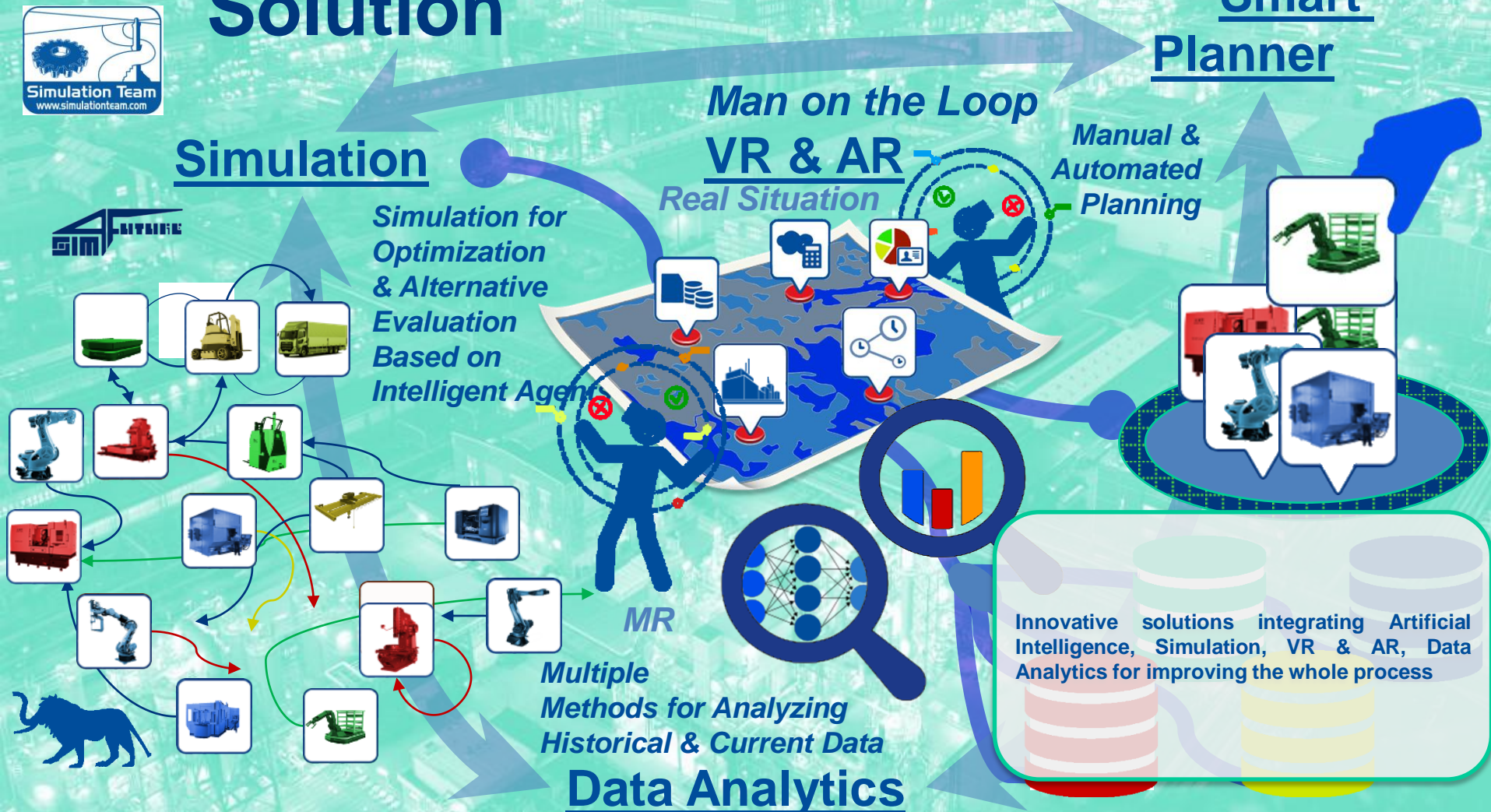
Smart
Planner

MR

*Multiple
Methods for Analyzing
Historical & Current Data*

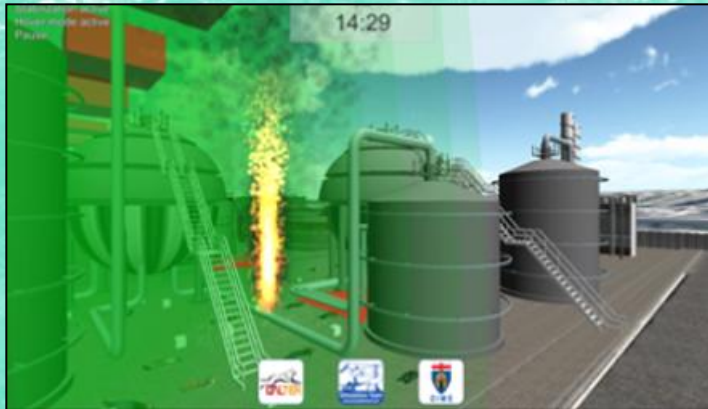
Data Analytics

Innovative solutions integrating Artificial Intelligence, Simulation, VR & AR, Data Analytics for improving the whole process



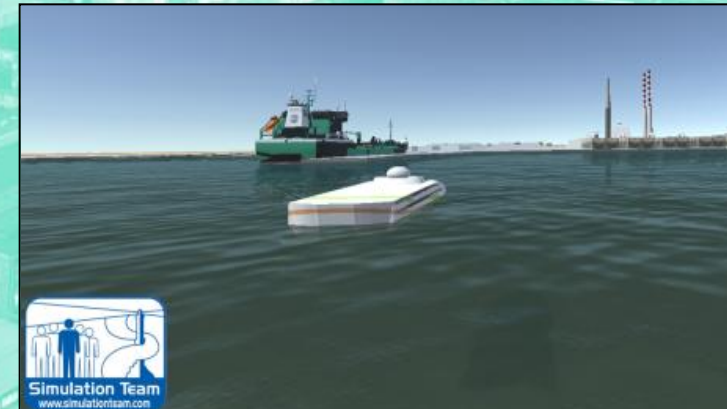
Examples of Projects

Industrial Indoor and Outdoor
Use of Robotic Systems for Inspection and Safety
Chemical
and Nuclear
Plants. Iron &
Steel Facilities
with UAV and
UGV collaborating

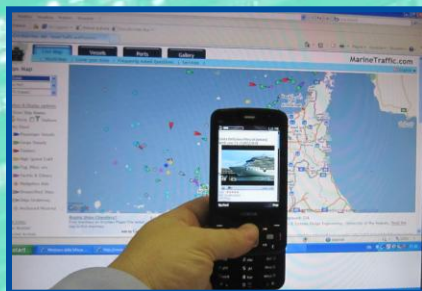


IDRASS

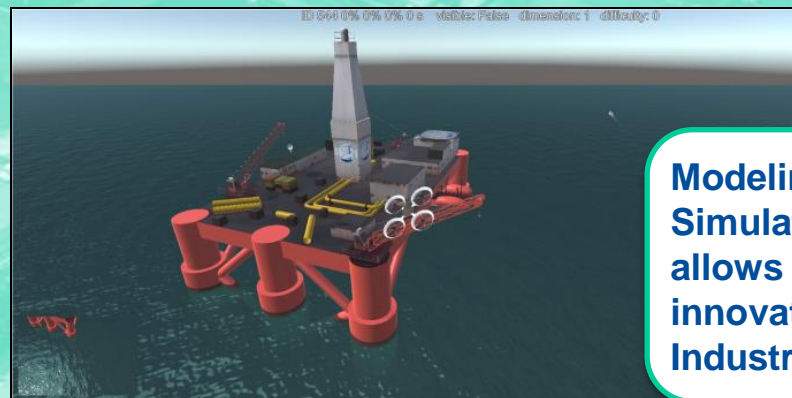
Critical Industrial Infrastructure Control and Monitoring



T-REX



- UAV Unmanned Aerial Vehicle
- UGV Unmanned Ground Vehicle
- UAS Unmanned Surface Vehicle
- AUV Autonomous Underwater Vehicle



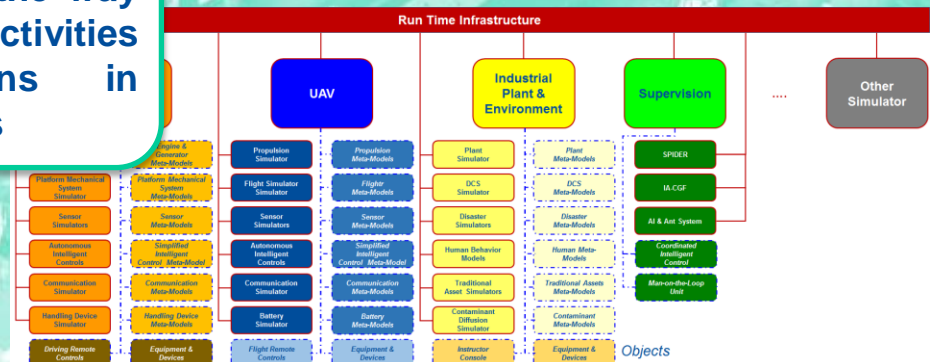
Modeling and Simulation (M&S) allows to investigate innovative solutions in Industrial Plants

SO2UCI

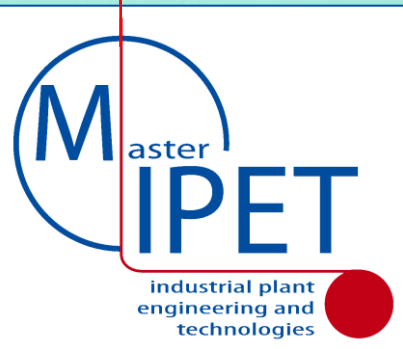
UxV & Plants



Autonomous Systems could reinvent the way to conduct activities and operations in Industrial Plants



UxV Unmanned any domain Vehicle



MIPET

www.itim.unige.it/mipet

9th Edition in 2018



Mastering Industrial Plant Engineering and Technologies is an initiative promoted by a joint Team of Academic Institutions, Industries and Associations. MIPET includes an International Master focused on Industrial Plants Technical Issues, with special attention to Engineering. MIPET Master Program Excellence is based on the strong cooperation between Academic and Technical Experts coming from Leading Universities and Companies operating in this area with special attention to Engineering and Construction in Power Generation, Iron & Steel and Environment.

SPONSORS

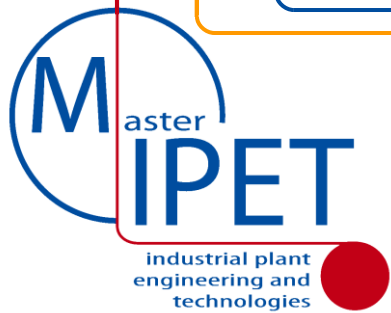
ABB

DANIELI
CENTRO COMBUSTION

 **PAUL WURTH**


tecnova





8th MIPET is closing... ...9th MIPET Starting!



9th Edition is just starting...

Sponsored by Industries as always along ~10 years!

Pre-registration open on www.itim.unige.it/mipet/join

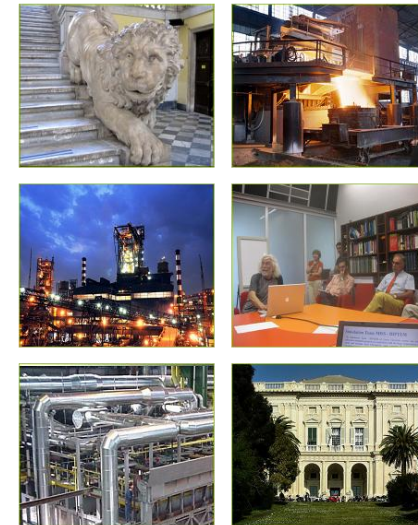
Selection Process is planned for December,

March & April by Live or Web interviews

Full Free Registration for Best Selected Student

Many Grants from Industries covering most of Tuition fees

We usually receive many pre-applications from Worldwide: Europe, Asia, Americas & Africa... but we want to select best students!



Prof. A.G. Bruzzone
MIPET Director

www.itim.unige.it/mipet

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mipet@itim.unige.it

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Academia, Institutions & Industries

MIPET ORGANIZERS & SUPPORTING INSTITUTIONS



Scuola Politecnica
Università degli Studi di Genova



DIME



www.simulationteam.com



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GENOVA



Ordine
Ingegneri
Genova



ASSOCIAZIONE NAZIONALE DI
IMPIANTISTICA INDUSTRIALE



SPONSOR COMPANIES



Examples of Other Cooperating Companies & Entities



FISIA ITALIMPIANTI



WHO SHOULD ATTEND

- Young Engineers with strong potential and technical background
- International Excellent Students of Engineering Departments from all around the world
- Engineers with experience in Plant Engineering from world-wide
- Engineers already employed in Engineering and Construction Companies who are interested in attending specific Operative Modules of the Master Program such as Project Management, Constructions, Standards and Regulations, Safety, Security & Risks

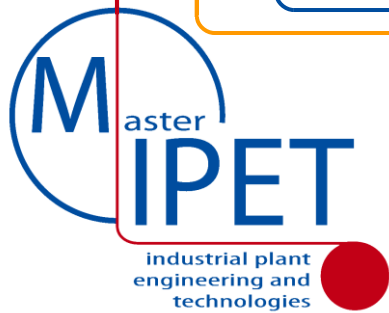


MIPET ADDED VALUE

BENEFITS FOR YOUNG ENGINEERS

- High Profile Professional Education devoted to provide High Value Skills in Industrial Plant Engineering and Technologies
- Continuous Interaction with Top Quality Experts from Academia, Institutions and leading Engineering & Construction Companies.
- Very Qualified Selection and Evaluation Processes that guarantee the Master Attendees as highly qualified resources for top companies.
- Opportunities to complete experiences On Field on complex Industrial Plant projects
- Contacts and visibility to major E&C* Companies and EPC** Contractors (EPC) operating at International and National level.
- Developing Human Potential of the attendees by training and improving their Individual and Team Working capabilities.





GENERAL PROGRAM



The Master in Industrial Plants includes:

- Basic Modules for Industrial Plant Engineering and Construction, including Process Engineering, Plant Automation, Materials & Technologies, etc.
- Operative Modules on Critical Issues for Industrial Plants (e.g. Engineering Standards and Regulations, Project Management, Quality Assurance etc.)
- Thematic Modules on Specific Plant Sectors (e.g. Power, Iron and Steel, Environment)
- Company Internships devoted to acquire on-field experience, including the development of the Project Work related to a Real Case
- Visits to Industrial Plants and Engineering, Research & Development Centers and Labs.
- Tests for certifying individual skills and capabilities acquired by the attendees on specific topics at the end of each single module.
- Professional Modules, integrated in the Master Program, but open for external attendees as stand alone courses. These modules include individual and team Projects Works to be carried out in competition/cooperation interacting with experts.



MODULES



Educational Module Topics

Basic Modules 80 hours

Fundamental Concepts related
to Industrial Plants Projects

Fundamentals of Financial
Analysis for Industrial Plants

Processes Engineering and
Components in Industrial Plants

Design and Engineering
for Industrial Plant Systems

Material Technology, Mechanical
Design and Industrial Plants

Automation in Industrial Plants

Software Systems for Supporting
Industrial Plant Design & Evaluation

Operative Modules 180 hours

Standards & Regulations

Project Management

Construction

Safety & Risks

R&D in Industrial Plants

M&S in Industrial Plants

Comm. & Team Building



Thematic Modules 160 hours

Power Plants

Iron & Steel Plants

Plants for Environment

Processes & Machines
in Industrial Plants

Desalination &
Water Treatments

Environment & Sustainability
for Industrial Plant Engineering

MIPET Other Modules
English, Chinese, Italian, Orientation

SPONSOR COMPANIES



BENEFITS FOR SPONSORS



- Active role in selection processes of Master Candidates
- Opportunity for deep evaluation and selection of Master Attendees Selection, Educational Modules, Internship and Project Work
- Opportunities to improve the skills of Engineers & Technicians already employed
- Free Seats and Discounted Rates for registering into the Operative Modules
- Sharing High Quality Education Costs within a Specific Qualified Community
- Cultural Interaction among the different Actors of this initiative: Industrial Companies, University and Institutions
- Active Role free of cost into Student Meetings, Campus Interview and other Initiatives organized by MIPET
- Joint University-Industry stimulation of interest and research projects on subjects related to plant engineering.
- Development of a Fertile Background in Industrial Plant, Global Engineering and Construction devoted to enhance the competitiveness of the whole system.
- Visibility on Media and Promotional Initiatives

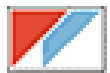
MIPET & INDUSTRIES



HOW A COMPANY BECOMES SPONSOR OF MIPET

- Subscribing an Agreement that includes an annual fee and the commitment to provide resources (i.e. 15 hours of experts for specific contributions to educational modules to be developed under Technical Scientific Committee Coordination).
- Providing information about its requirements and preferences with respect to the characteristics of Master Attendees to be selected.
- Getting Benefits of Free Seats and discounts on MIPET Operative Modules for its Employers and/or Customers
- Offering Internships to Master Program Students
- Providing Expertise as well as Real Case Studies

Sponsors MIPET-9h Edition



PAUL WURTH



tenova

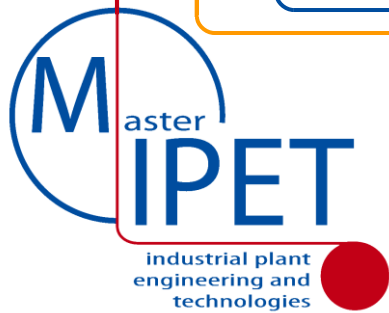


Prof. A.G. Bruzzone
MIPET Director

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MIPET Features



The ongoing cooperation among partners and sponsors aims at continuous improvement by guarantee MIPET top quality level:

- All Lectures and Material are in English
- Language Course for Attendees (English plus other optional Courses, i.e. Chinese)
- Agreements with Offices of Leading Companies for Cooperation and Enhancement of their top level engineers by involving them in MIPET Program
- Agreements with International Schools active in Plant Engineering and Technologies for Exchanging Trainers and Students
- Development of a Plant Engineering Reference Book for MIPET
- High Involvement of Foreign Students (e.g. India, Brazil, Iran)
- Special Benefits for Sponsors (i.e. Operative & Thematic Modules)



Sponsors MIPET 8th Edition



Examples of Other Cooperating Companies & Entities



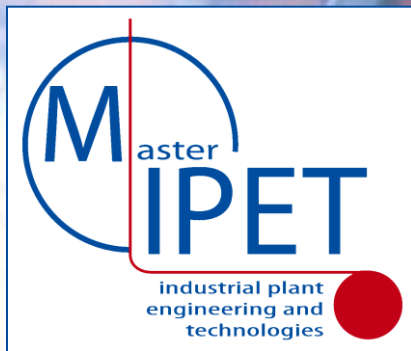
Prof. A.G.Bruzzone
MIPET Director

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Companies interested in Human Capital & Complex System Engineering



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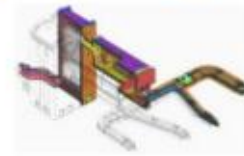
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PW Italia, employing 208 people based in Genoa (99 hired in the last 5 years), is one of the Main group company with long tradition.



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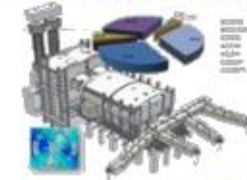
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Hydragroup



For glass market, Stara Glass coordinates the specific activities carried out by other Hydragroup companies

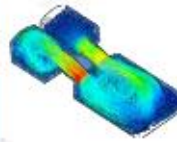


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DANIELI CENTRO COMBUSTION





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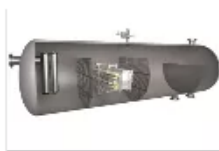
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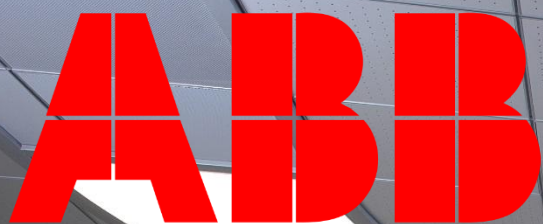


Federica Modugno, HR Manager Italy-Spain,
Alessandro D'Andrea, Technical Manager



iren





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MIPET: ABB Power System Division






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Flavio Sciacaluga, Technical Manager, Daniela Frisenda, Leonetta Patrassi, HR Managers, Metinvest

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dipendenti

 **16 miliardi**
bottiglie e vasi prodotti nel 2015

 **5** centri tecnici
e **13** centri di sviluppo
prodotti

60 60 forni

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mondiale

N°1
nell'Europa dell'Ovest

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Gruppo indipendente, **Verallia** è una delle aziende leader nel mondo nella **produzione dei contenitori in vetro** per alimenti e bevande

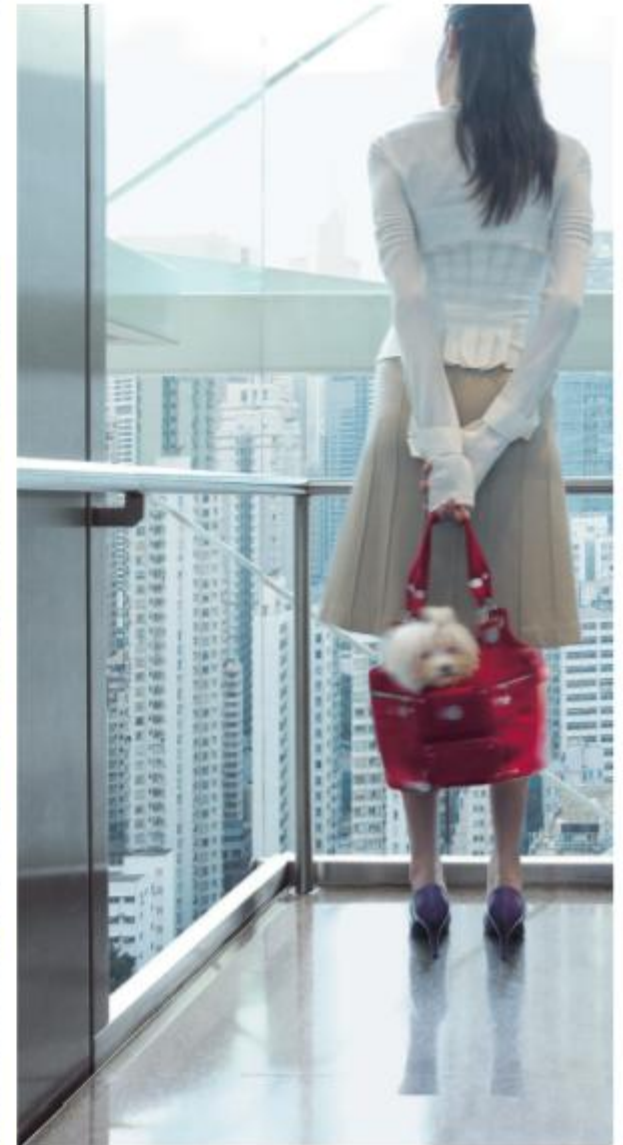
Marco Monteverde, Manager, Verallia





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Maersk Group

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- 2014 Revenue: \$47.5b USD (Shipping, Energy, Ports)
- 89,000 employees in 130 countries.

APM Terminals

The Hague, Netherlands

- 2014 Revenue: \$4.45b USD
- 2014 container volume: 38.3m TEUs (Container Volumes weighted by equity share)
- 20,600 employees, 58 countries





Alberto Tremori, Scientist, NATO STO CMRE

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Softjam meets with young engineers



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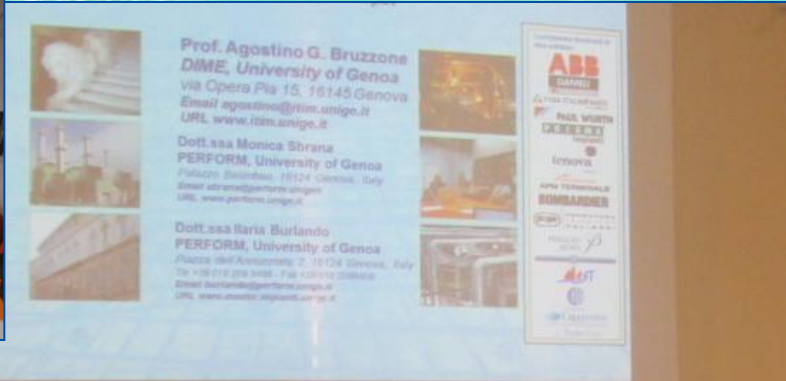


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... and Interviewing

References

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