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 ENGINEERING STUDIO

www.itim.unige.it/mipet/1year1day

1 Year of

www.itim.unige.it/mipet

Meeting Program

November 23, 2015 – 9:30 am - 18:00 pm

Piano Nobile, Villa Cambiaso - via Montallegro 1, 16145 Genova, Italy

Welcome Prof. Agostino G. Bruzzone 9:30

10:00 **International Opportunities Today**

Managers from International Major Companie 10:30

Student/Company Opportunities & Challenges

12:00 **Meeting with Companies & Campus Interviol**

12:30 **Break**

Meeting with Companies & Campus Intervio 13:00

18:00 Closure





















L'Industria incontra Giovani Ingegneri:

Sfide ed Opportunità per Giovani Ingegneri e Aziende



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

INVITO A TUTTI GLI STUDENTI DI INGEGNERIA

Meeting Program

www.itim.unige.it/mipet/1year1day

novembre 23, 2015 – 9:30 am - 18:00 pm

Piano Nobile, Villa Cambiaso - via Montallegro 1, 16145 Genova, Italy

9:30 Benvenuto Prof. Agostino G. Bruzzone

10:00 Eccellenza e Competitività Oggi

10:30 Responsabili di Aziende Leader a livello Mond

Sfide e le Opportunità per Aziende e Gioveni

12:00 Incontro diretto con le Aziende e Colloqui

12:30 Break

13:00 Meeting with Companies & Campus Inter

18:00 Chiusura

1 Anno di Colloqui fatto in 1 solo Giorno







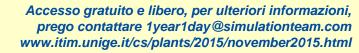












Industrial Plant Business Sector meets with Young Engineers:

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

www.itim.unige.it/mipet

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in 1 Single

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Sfide ed Opportunità per Giovani Ingegneri e Aziende



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INVITO A TUTTI GLI STUDENTI DI INGEGNERIA

Meeting Program

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1 Anno di

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





Welcome





















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 www.ingegneria.unige.it www.unige.it

Prof. Aristide Fausto Massardo



CONFINDUSTRIA Genova



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

Crocco, Confindustria





Ordine degli Ingegneri della Provincia di Genova





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

A Two-Speed World

The crisis pointed out by Media is very relative in terms of Geographic/Temporal Coordinates for Instance:

- Automotive Vehicles: +5% in Europe (~12.1 MVehicles), +6% in USA (~16.4 MVehicles), +12% in China (~18.3 Mvehicles) in 2014
- · Shipbuilding:

Europe from 8% of World Market to 3% (-60%) in 10 years 2011: 200 Ship in Construction just in Shanghai Area

GDP 2013:

World

China	7.4%	Italy	0.1%
USA	1.6%	Qatar	5.5%
Russia	1.3%	Angola	5.6%
India	5.7%	Iraq	4.2%
Brazil	2.5%	Chile	4.9%
Vietnam	5.3%	Malaysia	4.4%

4.0%

Germany	0.5%
Indonesia	5.3%
Nigeria	6.5%



Commercial Vehicle Production 2008-2012					
Rk	Country A Vehicles [%]				
1	USA	1,306,131	27%		
2	China	1,186,715	46%		
3	Canada	536,629	61%		
4	Thailand	532,987	54%		
5	India	373,421	77%		
6	Mexico	241,481	25%		
7	Indonesia	152,851	90%		
8	Argentina	69,269	35%		
9	Brazil	48,666	7%		
10	Iran	30,550	28%		
11	South Africa	22,710	9%		
4.0					

		uth Africa	22,710 9%		
12		Car Production:	2008-2012		
13	Rk	Country	∆ Cars	[%]	
14	1	China	8,785,913	130%	
15	2	India	1,439,445	78%	
16	3	South Korea	716,611	21%	
17	4	Mexico	592,549	49%	
18	5	Thailand	556,314		
19	6		499,360	34%	
20	_ 7	USA	329,212	9%	
21	8	Slovakia	324,224	56%	
22	9	Indonesia	312,078	72%	
23	10	Czech Rep.	237,728	25%	
24	11	Taiwan	139,329	100%	
25	12	Argentina	98,140	25%	
26	13	Romania	95,500	41%	
27	14	Brazil	77,975	3%	
28	15	Others	62,016	17%	
29	16	Malaysia	25,888	5%	
30	17	UK	18,287	1%	
31	18	Serbia	409	4%	
32	19	Austria	-1,836	-1%	
33	20	Finland	-14,619	-83%	
34	21	Portugal	-16,507	-12%	
35	22	Netherlands	-31,223	-53%	
36	23	Egypt	-35,605	-49%	
37	24	Turkey	-44,907	-7%	
38	25	South Africa	-46,251	-14%	
39	26	Uzbekistan	-50,058	-26%	
40	27	Slovenia	-53,397	-30%	
	28	Sweden	-89,473	-35%	
	29	Iran	-92,870	-10%	
	30	Australia	-107,110	-38%	
	31	Hungary	-126,919	-37%	
	32	Germany	-143,574	-3%	
T)	33	Canada	-155,138	-13%	
	34	Belgium	-172,927	-25%	
	35	Italy	-262,404	-40%	
	36	Poland	oland -302,000		
	37	Ukraine	-331,112	-83%	
	38	Spain	-403,369	-21%	
		France	-463,121	-22%	
	40	Japan	-1,373,924	-14%	
		T-4-1	40 242 424	200/	

A Two-Speed World

The crisis pointed out by Media is very relative in terms of Geographic/Temporal Coordinates for Instance:

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- · Shipbuilding:

Europe from 8% of World Market to 3% (-60%) in 10 years 2011: 200 Ship in Construction just in Shanghai Area

GDP 2014:

	China	7.4%	Italy -	0.2%	Germany	1.4%
1	USA	2.4%	Qatar	6.5%	Indonesia	5.2%
1	Russia	0.5%	Angola	3.9%	Nigeria	7.0%
	India	5.6%	Iraq -	0.5%	S.Leone	8.0%
Wh.	Brazil	0.3%	Chile	2.0%	S.Sudan -	12.1%
	Vietnam	5.5%	Malaysia	5.9%	Ethiopia	8.2%
	World			Turk	menistan	10.1%
	World	0. 770			Congo	8 6%

Commercial Vehicle Production 2008-2012							
Rk	Country			Vehicles	[%]		
1	US	SA .	1,3	306,131	279	%	
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8	Aŋ	gentina		69,269 3		%	
9	Bra	azil		48,666	79	6	
10	Irai	n		30,550	289	%	
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		36	Poland	-302,000	-36%
		37	Ukraine	-331,112	-83%
		38	Spain	-403,369	-21%
			France	-463,121	-22%
		40	Japan	-1,373,924	-14%
			Total	10,343,424	20%

Global 500 Companies in World during 2014

Ranking	Revenues		Profits	Pre	vious Ranking
1 Wall Mart	472 GUSD	+1.5%	16.0 GUSD	-5.7%	2
2 R.D.Shell	460 GUSD	-4.6%	16.3 GUSD	-38.4%	1
3 Sinopec	457 GUSD	+6.8%	8.9 GUSD	+8.6%	4
4 China N.Petr.	432 GUSD	+5.7%	18.5 GUSD	+1.7%	5
5 Exxon	407 GUSD	-9.4%	32.5 GUSD	-27.4%	3
6 BP	396 GUSD	+2.0%	23.4 GUSD	+102.4%	6
7 State Grid	333 GUSD	+11.7%	7.9 GUSD	-35.2%	7
8 Volkswagen	261 GUSD	+5.6%	12.0 GUSD	-56.7%	9
9 Toyota Motor	256 GUSD	-3.5%	18.1 GUSD	+57.1%	8
10 Glencore	232 GUSD	+8.5%	-7.5 GUSD	-837.1%	12
22 ENI	154 GUSD	-8.2%	6.8 GUSD	-31.6%	17







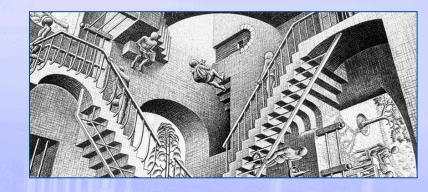






TOP COMPANIES Worldwide 2013 (Fortune)

Today: Living in a Paradox



In 2015:

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



Facebook, the most popular media owner,...



Alibaba, the most valuable retailer,...



Airbnb, the largest accomodation provider,...



owns no Vehicles



creates no content





has no inventory





owns no real estate





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, Marocco





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



New Locations... New Opportunities...



Freetown, Sierra Leone



Asunction, Paraguay



Ashgabat, Turkmenistan



Macau, China

...within a Challenging World









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







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 **QUPONT** project are following: BR



ENI Group





LAMCE **Petrobras**



EDA









Fleet Management Planning & Scheduling

Chemical Plant Logistics Optimization

Plant Service Management and Optimization



Decision Support for

Country Reconstruction Activity Planning



Fincantieri 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

OMember of NATO SAS, MSG, and NIAG





ANSALDO





PETROBRAS



















MIPET











www.itim.unige.it/mipet









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











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























JOIN 7th MIPET IT IS Open! Polytechnic School Diversité degli Stud di Genove









You are still able to apply:

- by sending email to mipet@simulationteam.com
- by click on web site www.itim.unige.it/mipet/join

Selection goes in April by Live or Web interviews Lectures, Projects & Internships starts middle of April

Full Free Registration for Best Selected Student Many Grants from Industries covering Tuition fees 13 Grants from INPS (7'500 Euro) for relatives of Public Employers

We receive many pre-applications from Worldwide: Europe, Asia, Americas & Africa... but we want to select best 30 students!



















Academia, Institutions & Industries

MIPET ORGANIZERS & SUPPORTING INSTITUTIONS

































































































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.



** EPC Engineering, Procurement & Construction



















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.



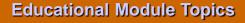




MODULES







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





























Companies interested in Human Capital & Complex System Engineering







Video per incontro ing az

File Modifica Vista Finestra Guida









D APPOLONIA



engineering your vision enhancing your performance

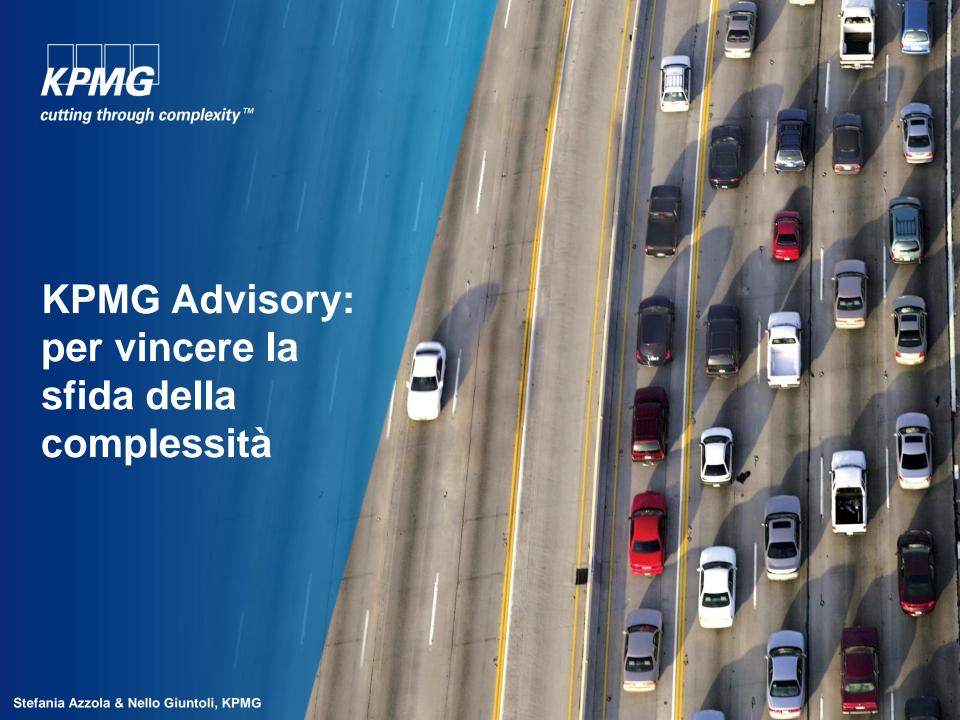
Making the best together

smarter together











Management of Advanced Solutions and Technologies



















Proud Member of Simulation Team

Leader in Modeling & Simulation: The First Italian Company Active as Contractor for M&S with European Defense Agency



Cal-Tek







www.cal-tek.eu

Proud Member of Simulation Team

Leader in Modeling & Simulation: Developing Innovative Solutions for Defense, Marine, Industry, Networking & Fine Arts











Alberto Tremori, M&S Scientist, RD, NATO Science & Technology Organization, CMRE

APM Terminals is one of five primary business units of the Maersk Group

Maersk Group

Copenhagen, Denmark

- 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





Oil Separation

There are separators at every oil & gas production facilities »



Power Electric Systems

Integrated products for service power generation and dieselelectric propulsion »



Propulsors

A broad range of propulsor solutions comprising propellers, thrusters and waterjets »



Pumps & Valves

Environmental and reliable liquid cargo handling pump technology »





Seals, Bearings & Stern Tubes

Reliable & easy to maintain from the world's leading supplier >



Waste, Oil & Fresh Water Management

Waste, Oil & Fresh Water Management to help meet current and future legislation »





Agnese Pongiglione, Senior HR, WARTSILA



Automation

Control and monitoring equipment for both individual products and integrated solutions for vessels »



Ballast Water Management

Wärtsilä uniquely offer two ballast water management system solutions »



Compressors

Designed for land and marine applications involving the supply of air or gas at high pressure »



Engines & Generating Sets

Our portfolio of propulsion engines for the marine industry »



Exhaust Gas Cleaning

Exhaust gas cleaning systems to reduce NOx and SOx »



Gas Systems

Gas handling systems & process solutions, including specialised high quality LNG projects »



Gears

Highest standards of operational efficiency & reliability, low noise & vibration



Inert Gas

High quality, inerting gas solutions preventing the risk of explosion »



www.gruppo-ib.com











CETENA

Research, Consultancy and Technology for Ships and the Sea











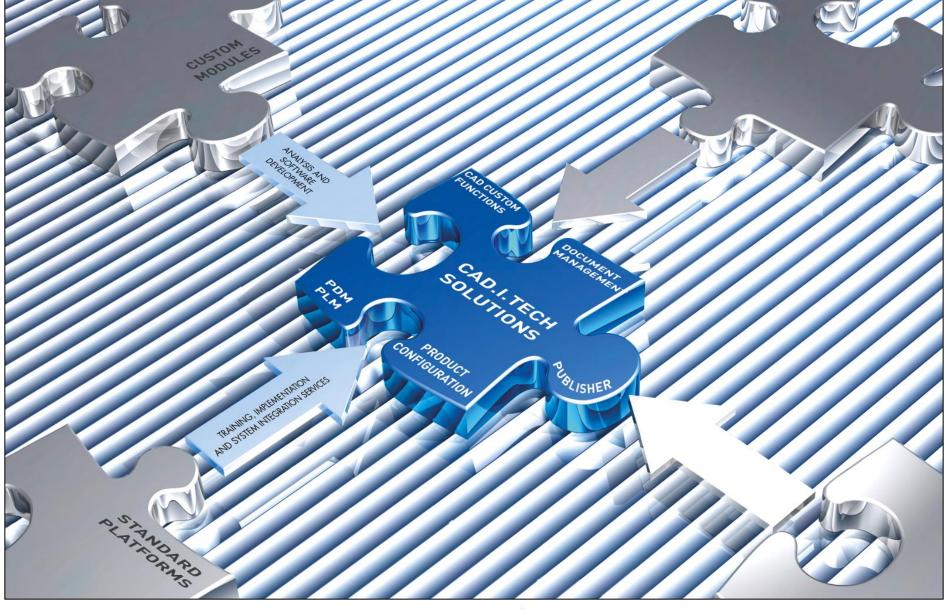






DANIELI CENTRO COMBUSTION









Marco Cavanna, Member of the Board & Business Manager, Tech-Value













Maurizio Cialdini, EURES

Questions & Free Discussion...









PROELMONT
S.R.L.

PSA VOLTRI-PRA

Masdar \$ 10000

TECH-VALUE

WÄRTSILÄ

Lifting Global Trade. APM TERMINALS

Autogru

ANSALDO























References

www.itim.unige.it/mipet mipet@itim.unige.it













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URL www.itim.unige.it











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Via Cadorna, 17100 Savona, Italy Email massei@itim.unige.it URL www.itim.unige.it/mipet











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