



nanoforum

micro and nanotechnologies:
where research meets business

V Edition

Turin, June 9 - 11, 2009

Centro Congressi Torino Incontra, Via Nino Costa 8

DESIGNED AND ORGANISED BY



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PARTNERS



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NANOTECH FOR SUSTAINABLE MOBILITY

CRF at the automotive conference session
June 11 at 16,15



CENTRO
RICERCHE
FIAT

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INFO UTILI



Per poter apprezzare tutta la notevole mole di informazioni disponibili a nanoforum si suggerisce di partecipare ai tutorial, alle sessioni di conferenza di proprio interesse, visitare l'Expo (con la zona di caffè e snack) di incontrare le Delegazioni estere partecipando agli incontri 1to1, di aderire al nanoforumTour di proprio interesse e infine riempire il modulo di valutazione >> www.nanoforum.it/valore

ORARIO DI INGRESSO

9 giugno dalle 13.45 alle 16.30
10 giugno dalle 8.45 alle 17.30
11 giugno dalle 8.45 alle 17.00

BADGE

Personale e valido per tutte le iniziative nel corso della manifestazione. Si prega di tenerlo esposto.

GUARDAROBA

Posizionato all'ingresso con chiusura mezz'ora dopo il termine dei lavori

CAFFÈ & SNACK

Nell'area espositiva è allestita anche una zona per caffè alle pause e snack alle 13

TAXI

Radiotaxi: tel. 011 5737 - 011 5730

TORINO E PIEMONTE

<http://www.comune.torino.it/canaleturismo/en/>
www.turismotorino.org
www.scopripiemonte.it
www.montagnedoc.it

ORGANIZZAZIONE

Allo stand ITER o alla Reception

GUIDA CATALOGO

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Per restare in contatto con noi

>> www.iter.it/contacto

N. B. L'ingresso a nanoforum è gratuito grazie al supporto delle Istituzioni, degli Espositori e degli Sponsor!

USEFUL INFORMATION



In order to take all the best of nanoforum we suggest to participate to the conference sessions, satellite events, to visit the Expo (with coffee and snack area), meet the Partners at 1to1 meetings, take a nanoforumTour and last, but not least, fill in the evaluation form >> www.nanoforum.it/value

TIME TABLE

9th June from 1.45 pm to 4.30 pm
10th June from 8.45 am to 5.30 pm
11th June from 8.45 am to 5.00 pm

BADGE

Personal badge, valid for all initiatives during the days of the event. Please always display your badge.

WARDROBE

Near the entrance, is open till half an hour after the term of the event

COFFEE & SNACKS

In the Expo Area is foreseen a coffee break and snacks for lunch

TAXI

Radiotaxi: Ph. +39 011 5737 - +39 011 5730

TURIN & PIEDMONT

<http://www.comune.torino.it/canaleturismo/en/>
www.turismotorino.org
www.scopripiemonte.it
www.montagnedoc.it

STAFF

At the ITER's stand or at the Reception

GUIDE CATALOGUE

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The organisation has made great efforts to realize this guide but it doesn't take the responsibility for any errors, omissions or changes on programmes.

To keep in touch

>> www.iter.it/english/contact_us.htm

Note: The participation to nanoforum is free of charge thanks to the support of Institutions, Exhibitors and Sponsors!

WELCOME

Dear Participant,

Thank you so much for coming to nanoforum 2009 in this beautiful city, Turin, which has been the first capital of the Italian kingdom during 1861 - 1865.

In the area of the Centro Congressi you can also find the Egyptian Museum, recognised as the only museum other than the Cairo Museum that is dedicated solely to Egyptian art and culture starting from 4.000 years ago.

Not too far from here you also find the CRF headquarter, the Research Center of FIAT, the Italian Group leader in the automotive area.

But Turin also hosts many other important public and private laboratories.

So, could we find a better place to discuss the amazing development of nano-technologies?

We are all very grateful to the Institutions, the Research Centres, the Enterprises that decided to support this project, started in 2005 with the important partnership and the hospitality of Politecnico di Milano, who is still one of the Co-organizers.

As you can see in this Guide-Catalogue we do not only have a very important Honour and Promoting Committee, but also an increasing number of specialised initiatives

- **1 tutorial** to introduce nanotechnologies, held by an international authority, prof. Paolo Dario, followed by three tutorials on specialised areas.
- **3 business opportunity sessions** to present the 25 foreign delegates, coming from Korea, India, Japan, Russia, Singapore, Sweden and USA, involved by ICE
- **1 plenary session** particularly up-to-date
- **18 specialized sessions** on the main industrial sectors
- **3 satellite events**
- **Over 40 companies** will introduce you to highly specialised nanotechnology products and services in the conferences and in the exhibition area
- **Over 100 1to1 meetings** have been scheduled between the foreign delegations and Italian companies and researchers

Last, but not least, I am glad to remind you the possibility to participate to the nanoforum tour which is an opportunity to visit the very interesting Piedmont Research Centres and to spend a very nice weekend in Italy.

I hope you will enjoy your participation at nanoforum 2009!

Turin, 09 June 2009



Domenico Piazza
senior partner, ITER



Domenico
Piazza
senior partner, ITER



HONOUR COMMITTEE

The Honour Committee points out topics of great interest for the civil society and industry, and sensitizes the attention of the entrepreneurs towards nanotechnologies. It involves Institutions, Organizations, Companies and Associations, but also Media, in order that the technological revolution, that the application of these technologies implies, is understood, spread and used in a safe way.



**Giulio
Ballio**
Chancellor,
Politecnico di Milano



**Alessandro
Barberis**
Chairman, Camera di
Commercio di Torino



**Mercedes
Bresso**
Chairman,
Regione Piemonte



**Gianfranco
Carbonato**
Chairman, Unione
Industriale di Torino



**Sergio
Chiamparino**
Major of Turin



**Andrea
Cuomo**
Executive
Vice President, ST



**Ferruccio
De Bortoli**
Editor,
Corriere della Sera



**Enrico
Decleva**
Chairman, CRUI



**Paolo
Garbarino**
Chancellor, Università
del Piemonte Orientale



**Pier Francesco
Guarguaglini**
Chairman,
Finmeccanica



**Giancarlo
Losma**
Chairman,
UCIMU



**Francesco
Profumo**
Chancellor,
Politecnico di Torino



**Ezio
Pelizzetti**
Chancellor,
Università di Torino



**Gianni
Riotta**
Editor,
il Sole 24 ore

PROMOTING COMMITTEE

The Promoting Committee, on the basis of its own experiences and the preeminent indications, contributes to the realization of the different conference sessions and promotes the event for an important dissemination of knowledge and for an active involvement of Companies. It takes part to the realization of the Guide-Catalogue, available during the event, that encloses the main elements of the event and offers a series of information, useful all over the year.



**Carlo Enrico
Bottani**
Politecnico di Milano,
Coordinator



**Luca
Boarino**
INRIM



**Maichi
Cantello**
Consorzio CALEF



**Giuseppe
Caputo**
Università di Torino



**Alberto
Cigada**
Politecnico di Milano



**Paolo
Dario**
Scuola Superiore
Sant'Anna di Pisa



**Gianfranco
Innocenti**
CRF



**Leonardo
Marchese**
Università
del Piemonte Orientale



**Nicoletta
Marchiandi**
Camera di
Commercio di Torino



**Domenico
Piazza**
ITER



**Fabrizio
Pirri**
Politecnico di Torino

MESSAGE OF THE PROMOTING COMMITTEE COORDINATOR

Nanotechnologies are

ever more a reality. Though nanoscience dates back to the birth period of quantum mechanics (1900-1926), offering the deepest key-concept enabling its technological exploitation: quantum confinement, only rather recently the first significant conscious nanoapplications have become available. I say conscious as an unaware usage of amazing nanoparticle properties can be found in the stained glass windows of ancient cathedrals. In the last years the word nanotechnology attained a wide audience mainly through some newspaper articles, among which both very good pieces of scientific popularization and rather fanciful rubbish. The proper citation of Richard Feynman's talk "There is plenty of room at the bottom" (1959) always present. Although most people are aware only of the title, the reading of that speech is a stimulating experience even today and the content could perfectly fit the spirit of nanoforum: a strict connection between basic research and relevant industrial applications. In his prophetic lecture Feynman foresaw, among other things, the direct manipulation of individual atoms as a new method of chemical synthesis.

As I already wrote in the last year introduction, the youngest delegates of nanoforum 2009 could hardly fully realize how revolutionary was Feynman's dream at that time, mainly for the technologists. Just to make an instance, since 1982, with an impressive growth of new achievements, the scanning tunnelling microscope (STM) allows imaging and manipulation of individual atoms. Besides making possible to check the quantum theories of atomic structure of surfaces, this new microscopic tool is also a useful device both for materials science and engineering and for emerging nanobiotechnology and nanomedicine. Direct imaging and manipulation of atoms is only an important instance among the many obtained results. To cite less exotic applications, even grace to excellent national research, we hope to see in the next years OLED (Organic Light Emitting Diodes) substituting conventional bulbs in automotive applications, quantum dots photovoltaic cells, nanoparticle drug delivery and other new technological products limited only by nature laws and designer creativity. As for the previous editions, nanoforum 2009 also wants to put forward the message that several nanotechnologies are ready as present, not only future, crucial industrial technologies.

You will see that in the conference.



**Carlo Enrico
Bottani**

Politecnico di Milano,
Coordinator of the
Promoting Committee



**POLITECNICO
DI MILANO**

Carlo Bottani
Carlo Bottani
PROMOTING COMMITTEE COORDINATOR

TURIN CHAMBER OF COMMERCE



CAMERA DI COMMERCIO
INDUSTRIA ARTIGIANATO E AGRICOLTURA
DI TORINO



Palazzo Affari - Turin

The Turin Chamber of Commerce is a public institution which plays a key role in promoting and developing the local economy. The mission of the Chamber is to support the 230,000 companies working in the Province through effective and targeted initiatives focused on the local economic development: training, access to financing, technological innovation, information and consultancy for companies involved in foreign trade.

Turin Chamber of Commerce co-organizes Nanoforum 2009. During the exhibition, the Chamber, in collaboration with Unioncamere Piemonte and Enterprise Europe Network, organizes a technological partnering addressed to companies, research centers or universities that are interested in setting a research activity or technological cooperation in the following sectors:

- nanomaterials (textile, architecture and Design)
- nanomedicine
- nanotechnologies and agro-food
- nanotechnologies and energy
- nanotechnologies and metrology
- nanomechanics and mechatronics
- nanotechnology applications in automotive and aerospace
- nanotechnology applications in cultural heritage



The Enterprise Europe Network is located in more than 40 countries (EU 27, Armenia, Chile, Croatia, former Yugoslav Republic of Macedonia, Iceland, Israel, Norway, Russia, Siria, Switzerland, Turkey and USA) and operates through 600 local partner organisations (selected by the European Commission). The aim of the network is to provide expert advice and support to EU businesses and to enhance innovation and competitiveness in Europe and worldwide.

www.to.camcom.it/een

TURIN CHAMBER OF COMMERCE

As President of the Turin Chamber of Commerce

I am glad to cordially welcome you to Nanoforum, an appointment hosted for the first time here, in Piedmont, after the first four editions held in Milan. For us, it is an event of great importance and of interest for both business and research Community, focusing on a sector that is strongly innovative and transversal to numerous economic division, where our companies hold an excellent position.

Of particular relief is the technological brokerage event, organized by the Enterprise Europe Network, whereof the Turin Chamber of Commerce takes part, addressed to companies, research centres and universities interested in collaborating or jointly setting up research activities at international level.

Thanks to the collaboration with ICE (Institute for Foreign Trade), this year Nanoforum foresees the presence of numerous foreign delegations, that will contribute to create here in Turin, an active and dynamic entrepreneurial culture, a very high level of know how and specialization and a common ability to relates with international operators.

We believe that the custom to work in international competitive contexts represents one of strongest points of our economic tissue, together with the presence of the most famous research centres, public and private, and with the concrete support by the most important Institutions of the region.

A successful industrial mix to seize the opportunities offered by foreign markets and by new perspectives of the applied research.



**Alessandro
Barberis**
President of Turin
Chamber of Commerce



Alessandro Barberis

Alessandro Barberis
PRESIDENT OF TORINO CHAMBER OF COMMERCE

1859-2009



150 anni di Cultura
Politecnica



POLITECNICO
DI TORINO

The Politecnico di Torino, founded in 1906 from the roots of the Technical School for Engineers created in 1859, has a long-standing tradition of leadership of polytechnic culture. It is one of the most important universities in Europe for engineering and architecture studies, strongly committed to collaboration with industry. Currently it holds the 57th position among the top Engineering universities in the world, the 7th in Europe and the 1st in Italy (Shanghai Jiao Tong University Ranking 2008).

27,000 students attend the Politecnico per year. About 11% of them are international students coming from 100 different countries. The Politecnico offers excellence in technology and promotes the ability to carry out theoretical or applied research and also the capacity to achieve concrete and reliable productive processes or organise services and facilities.

The project for the expansion of the Politecnico, to create a new Campus, in a central position in the city, is part of the global process of major urban change favoured by relocation of large industrial areas. The "Cittadella Politecnica" is being developed on a 170,000 sq.m. area behind the present premises. The project is intended to make the Politecnico a place not only for academic learning and research, but also an attractor of major investments by multinationals, a place for technology transfer, permanent partnerships with industries, community services, social meeting points and urban regeneration.

POLITECNICO DI TORINO
Corso Duca degli Abruzzi, 24 - Torino
www.polito.it



POLYTECHNIC OF TURIN

Nanoforum has reached its fifth edition.

We are glad to have the meeting for the first time in Turin and to be one of the main supporter of the initiative from the scientific point of view. Since the first edition in 2005 the meeting has shown a growing trend that will be confirmed also this year with the new location in "Torino Incontra Center". Nanoforum is confirmed as the main Italian meeting point to promote the new possibilities offered by nanotechnologies and to foster the process of technological transfer from the academic world to industry. It is an important occasion to know the state of art at world level and to establish contacts with Italian and foreign researchers. The location in Piemonte is supported by several reasons. The Region has been a hub for technical innovation in recent decades with automotive industry, mechanics, robotics, ICT, aerospace, food industry. More recently it has diversified its economy towards sectors related to the "economy of knowledge". It focused on R&D activities and invested in strategic sectors like life science, renewable energy, new materials, environmental technologies logistics, pharmaceutics, healthcare.

Innovations in knowledge and technology constitute the determinative element for the development and well-being of society in this new century. All the recent progress in the sciences of life, health, nutrition, environment, information, material and energy, have in common the study and comprehension of physical and biophysical phenomena at the smallest scale, i.e. those of the super-molecular systems, molecules, atoms and atomic structures. There is no sector which can prospectively withdraw from the challenges of investigation, knowledge and the exploitation of the most minute atomic structures. The Micro and Nanotechnologies offer the possibility of projecting and introducing innovations at the scale where the falling back on characteristics and performances of products develop their maximum potentialities. Development of knowledge and of technologies at the nanoscale is determining a revolution in our ways of conceiving, projecting and achieving products and innovative systems. All the sectors of traditional industry will be strongly influenced by the "nanotechnology revolution". With these ideas Politecnico, through the synergy of interdisciplinary competencies of its Departments and Labs, has made big efforts to reach the state of art at world level in several sectors where nanotechnologies can be developed or applied. This year more than 20 official delegations from USA, Japan, Sweden, Swiss, France, Russia, China, India, Korea, Singapore will be present thanks to ICE support. The delegates are interested in contacts with Italian industries and with Italian researchers supporting the idea of the quality of our research system. Politecnico will provide the scientific supports in the organization of several sessions and tutorials. Moreover two Satellite Events focused on Nanomedicine Research and Formation in Nanotechnology fields will be organized and we are sure they will be important occasions of meeting and comparison at the highest level.

I want to close this introduction with some acknowledgments to Regione Piemonte, to Camera di Commercio di Torino, to all the Piemonte Research and Academic system for the support which made the organization of Nanoforum 2009 possible.



**Francesco
Profumo**
Chancellor,
Polytechnic of Turin



Francesco Profumo

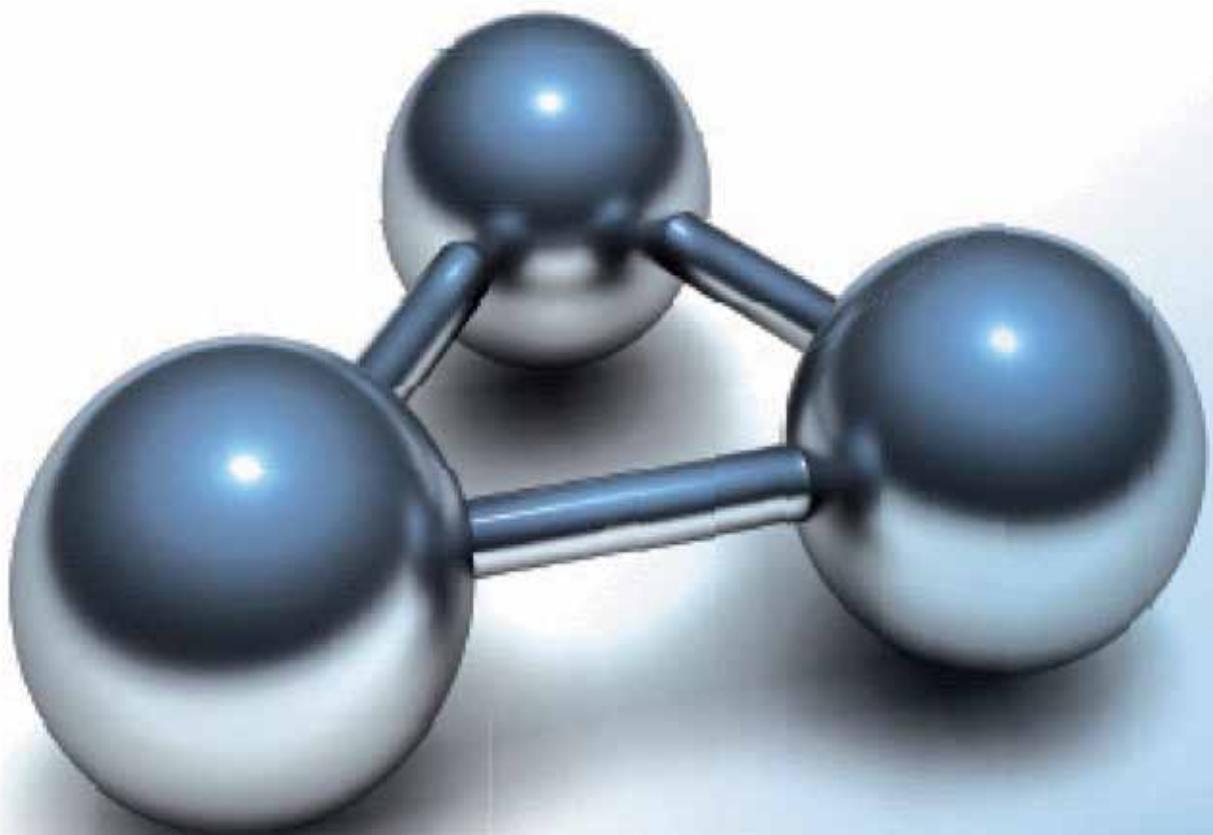
Francesco Profumo
RECTOR OF POLYTECHNIC OF TURIN

ITALIA



International delegations organized by ICE at
Nanoforum 2009

Turin, "Torino Incontra" Congress Center
June 9th - 11th



ICE

CAPITAL GOODS AND HI-TECH DIVISION

It is a very great privilege

and pleasure for the Italian Institute for Foreign Trade-ICE to participate with an international delegation at the Fifth edition of nanoforum 2009, organized by ITER in Turin from 9th to 11th June.

Over the last few years, the Italian nanotechnology sector has shown an impressive growth, mainly driven by several highly specialized small and medium enterprises: newly created start-up or spin-off from the industry of microelectronics, new materials, aerospace, and pharmaceutical, and it is set to continue expanding in the future.

The high potential of the Italian innovative nanotechnology sector depends on the following key factors: great interest on nanotechnology from typical "Made in Italy" market sectors and the strong commitment of both public and private research centers.

Needless to say, the interaction between production and research plays a crucial role for a competitive and successful nanotechnology industry.

ICE is aware of the importance of nanotechnology for the Italian industry and it has developed a specific programme to support the sector's growth, the penetration into foreign markets and the technology transfer between research centres and private companies.

This Special Project for the Development of Nanotechnology has the financial support of the Italian Ministry for Economic Development and it is planned in collaboration with AIRI - Nanotec.it, the Italian Centre for Nanotechnology and with representatives from the major Italian nanotech clusters, in order to establish common strategies. This action plan includes a wide range of initiatives, among which participation at the major international Conventions, organization of seminars and workshops abroad, missions of foreign experts and entrepreneurs to Italy - aimed at creating technological partnership between Italian and foreign companies in the nanotechnology sector.

For the Edition 2009, ICE has identified and will host a highly qualified foreign delegation selected by ICE offices abroad. The delegates represent Companies, Research Centres and Laboratories operating in seven emerging and dynamic nanotech markets: Korea, India, Japan, Russian Federation, Singapore, Sweden and the United States of America. The Italian visitors at nanoforum will consequently have the opportunity to meet international experts during the exhibition at ICE Focal Point and in one-on-one scheduled meetings. Finally a speaker selected from every country, will illustrate the state-of-the-art technologies and the market trends during the conference session.

On this occasion I wish to all participants and visitors to enjoy the conference and exchange their experience, establishing new contacts and expanding their own network.

Your Faithfully

Ferdinando Fiore

Ferdinando Fiore

HEAD OF ICE CAPITAL GOODS AND HI-TECH DIVISION, ICE ROME



Ferdinando

Fiore

Head of ICE Capital
Goods and Hi-tech
Division, ICE Rome



ISTITUTO NAZIONALE DI RICERCA METROLOGICA (INRIM)



On 1st January 2006 the Istituto Elettrotecnico Nazionale "Galileo Ferraris" (IEN) and the Istituto di Metrologia "Gustavo Colonnetti" (IMGC) merged to establish the Istituto Nazionale di Ricerca Metrologica (INRIM). INRIM is the national public body with the task of carrying out and promoting scientific research in metrology.

With the handover of the tasks of primary metrology institute previously assigned to IMGC and IEN, INRIM has become the focus of most scientific metrology activities in Italy (except for the field of ionising radiation, where ENEA-INMRI maintains its role). Its research activities in measurement science, materials science and innovative technologies are recognised at world-wide level.

INRIM carries out studies and researches on the realization of primary standards for the basic and derived units of the International System of units (SI), assures the maintenance of such standards, their international comparison and in general provides measurements traceability to the SI. In addition to physical and engineering metrology, its main R&D areas are in fundamental physical constants, materials, metrology for chemistry and health, nanotechnology, innovation, quantum information and artificial vision.

Furthermore INRIM:

undertakes, promotes and coordinates scientific and technological research projects, often in cooperation with the European Union and international bodies, both through resources of its own and through programs of collaboration with universities and other national or international public and private organisations;

promotes and coordinates the participation of Italian representatives in international bodies, projects and initiatives, and supplies scientific expertise and advisory services; carries out communication and promotion activities concerning research, and circulates its economic and social results on a national scale;

promotes the technical and professional education and growth of its staff and personnel, also by awarding scholarships and supporting PhD theses;

provides technical and consultancy services to other scientific bodies, public administrations, companies or other private organisations, and provides high level calibration services to third parties under private law;

operates independently the national accreditation body for calibration laboratories (SIT).

INRIM has its main premises in Torino, Strada delle Cacce 91, and operational centres in Politecnico of Torino and University of Pavia.

ISTITUTO NAZIONALE DI RICERCA METROLOGICA (INRIM)

Nanoforum represents for Turin and Piedmont

an intriguing opportunity to show to national and international audience research results and latest achievements in the emerging field of nanotechnology. Several Piedmontese institutions, like academies, research centres and private companies are working in this field since the mid '90s.

INRIM, for instance, has a solid tradition of basic and applied research in the field of precision measurements, standards, nanostructured materials and micro and nanodevices.

The motivation of a metrological institute like INRIM to investigate the field of nanotechnology is the need to link the metrological standard units to the fundamental constants of universe, by means of a deep comprehension of quantum mechanics and nanoscale phenomena.

This connection assures the temporal and spatial invariance of standards, while the knowledges in nanotechnology and nanoscience can guarantee measurement resolution and accuracy unreachable by other methods.

Nowadays at INRIM an efficient development of basic research is essential, in particular in nanotechnology, also through cooperation and exchanges with European academies, research centres and industries.

The opportunity offered by Nanoforum is therefore deeply appreciated by our researchers and technicians.



**Prof.
Elio Bava**
President INRIM



Elio Bava

Professor Elio Bava
PRESIDENT INRIM

Turin, May 2009

Nanostructured Interfaces and Surfaces



Director: Prof. Adriano Zecchina

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Prof. Lorenza Operti

Secretary: Gabriele Ricchiardi

Research Activity @ NIS:

Nanostructured metallic materials
Methods for materials and surfaces modelling
Thin polyfunctional nano- and micro-structured strates of semi- and super-conductor materials
Surface chemistry
Hydrogen: materials for its production and storage
Nanostructured materials for adsorption and catalysis
Photoactive materials and molecules
Supramolecular chemistry
Biocompatibility, bioactivity and toxicity of nanomaterials
Biophysics, biosensors and neurochips
Technology and knowledge transfer
Nanostructured, nanocomposite and functionalized polymer materials and carbons

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LHT=15.00 KV

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NANOTECNOLOGIE E TRASFERIMENTO TECNOLOGICO IN PIEMONTE

Una significativa esperienza realizzata in Piemonte

nel campo delle nanotecnologie è stato il progetto Nanomat, attivo dall'ottobre 2006 al giugno 2008. Il progetto "Nanomat - le nanotecnologie applicate ai rivestimenti innovativi (funzionali e decorative) e ai materiali compositi polimerici e magnetici" è stato un caso emblematico di progetto di Trasferimento Tecnologico specificamente dedicato alle nanotecnologie, ed in particolare ad alcuni settori delle stesse con maggiore relazione con il substrato industriale del territorio. Finanziato dalla Regione Piemonte attraverso i fondi strutturali dell'Unione Europea, Nanomat ha avuto l'obiettivo di promuovere le relazioni e di permettere il dialogo tra la ricerca scientifica e tecnologica e le piccole e medie imprese presenti sul territorio della Regione, su temi legati all'innovazione attraverso l'uso delle nanotecnologie. Dal lato della ricerca il progetto ha coinvolto numerosi centri attivi nelle nanoscienze e nelle nanotecnologie sul territorio della Regione Piemonte: il NIS dell'Università di Torino, il Centro NanoSistemi dell'Università del Piemonte Orientale, il Dipartimento di Scienza dei Materiali Ingegneria Chimica del Politecnico, l'INRIM (Istituto Nazionale di Ricerca Metrologica), il CNR-ISTEC, i laboratori dei Parchi Scientifici e Tecnologici. I diversi soggetti si sono aggregati in una ATS (Associazione Temporanea di Scopo), guidata da ASP - Associazione per lo Sviluppo Scientifico e Tecnologico del Piemonte e da COREP - Consorzio Regionale per l'Educazione Permanente. Il monitoraggio delle attività dell'intero progetto è stato realizzato da uno Steering Committee guidato dalla Regione Piemonte ed i cui membri sono stati indicati da associazioni imprenditoriali (Confindustria Piemonte, AMMA, API, CNA), enti pubblici ed enti di ricerca, ed un rappresentante di ciascuno dei partners. Le aree scientifico-tecnologiche coperte dal progetto sono state quelle descritte anche nel suo titolo: rivestimenti decorativi (in particolare quelli studiati allo scopo di sostituire le cromature), ricoprimenti funzionali (particolarmente materiali ceramici di nuovo disegno per strumenti da taglio), composti polimerici e composti magnetici; a questi due temi sono stati aggiunti dopo l'inizio del progetto, ed in particolare i tessili di nuova progettazione e l'uso del laser e del nanotech nell'arte e nel disegno. La novità più importante di questo progetto è quella di essere stato il primo nella Regione, ed uno dei primi a livello nazionale ed europeo, a promuovere il Trasferimento Tecnologico ed il Trasferimento di conoscenza in questo campo. Infatti, insieme ad iniziative di Trasferimento Tecnologico più comuni e classiche, quali i progetti dimostratori, Nanomat ha promosso e finanziato anche attività di tipo meno comune ed iniziative di divulgazione scientifica. Nanomat ha inoltre stimolato e coordinato la creazione del Club delle Nanotecnologie, un'associazione di imprese coinvolte o interessate al campo delle nanotecnologie e dei nanomateriali. Il Club si propone di organizzare formazione, informazione e progetti, mantenendo in costante rapporto le imprese piemontesi con i centri di ricerca regionali attivi nelle nanotecnologie e nello sviluppo di nuovi materiali e processi produttivi.



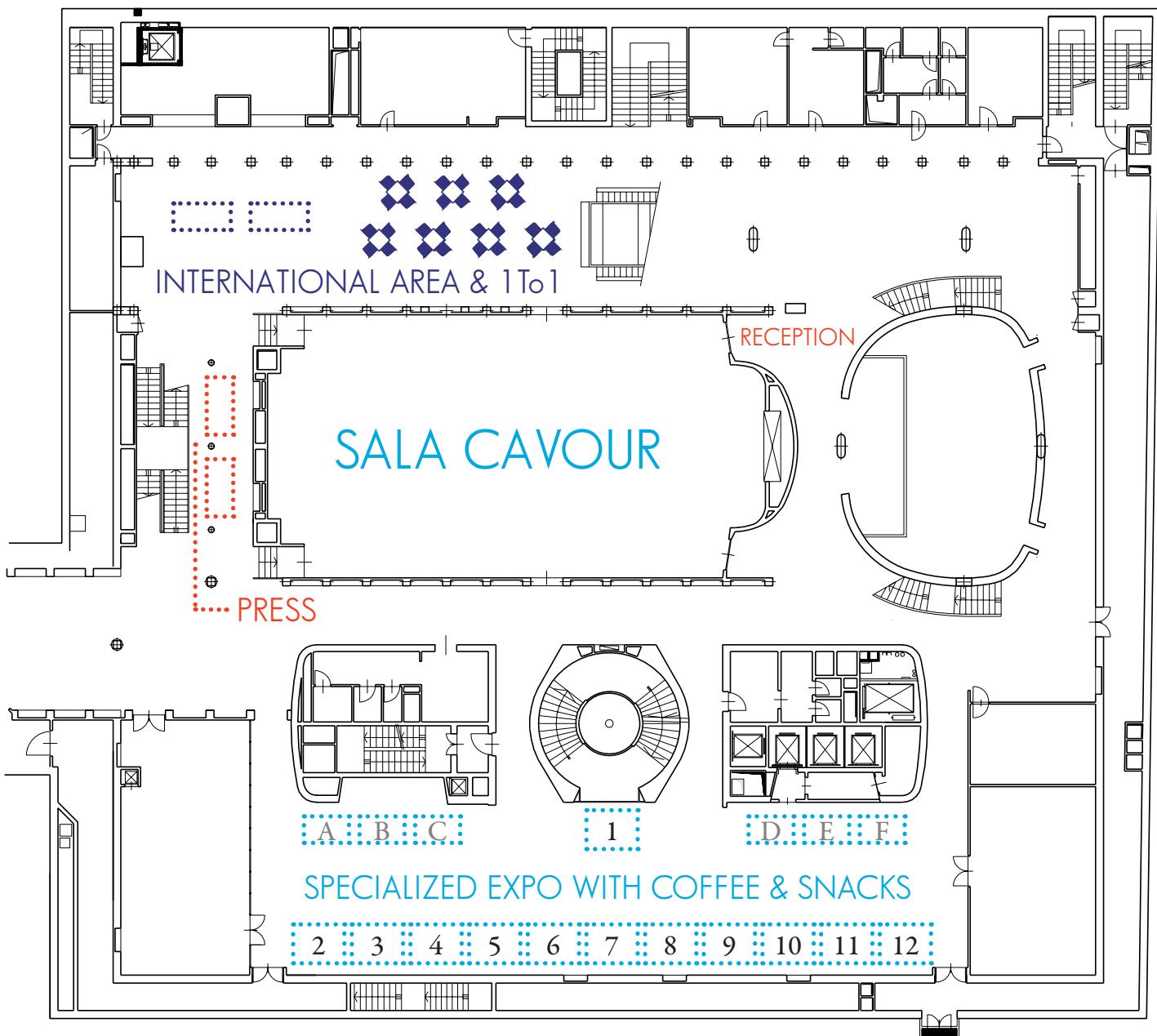
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IA

AMPHORA Labs is a private Russian innovative company located in Moscow, Russia. Our main field of activity includes development and commercialization of high-tech products. Through implementing latest advances in optics, laser technology and precision mechanics on a nano level, we have achieved phenomenal results.

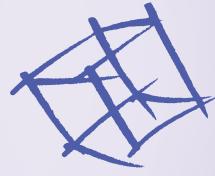
Our Russian partnering companies provide us with selective engineering services and technological support aimed at helping AMPHORA's inventors to complete their works.

The core of the company's R&D team consists of 14 talented and highly-qualified scientists and engineers, authors of 16 patents in precision mechanics and laser optics.

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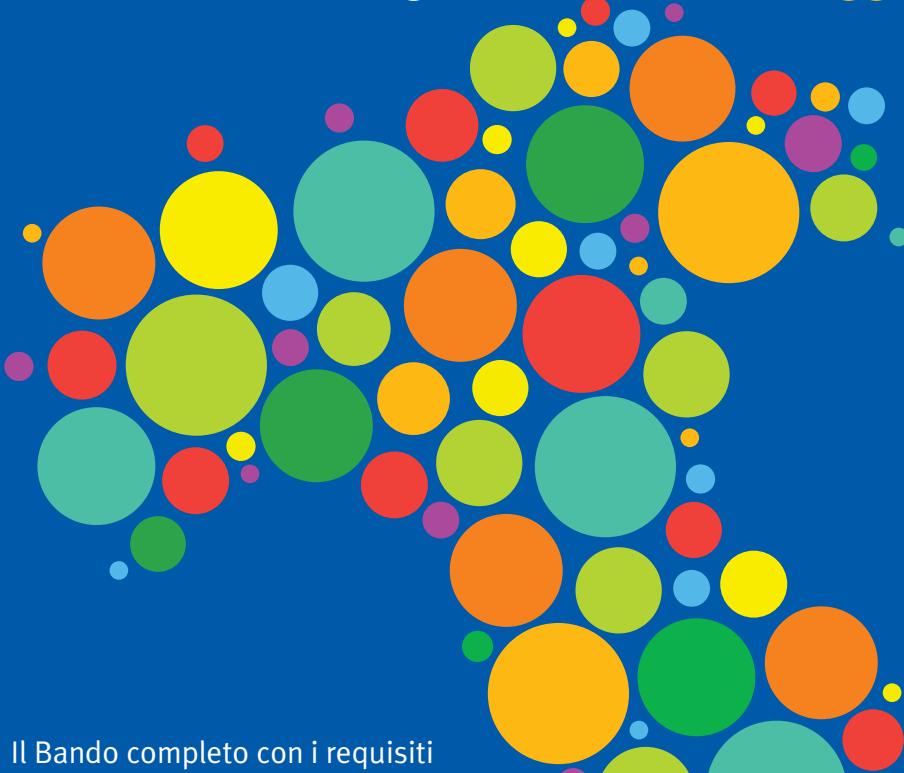
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Piemonte Agency for Investments, Export and Tourism is the first Italian agency dedicated to internationalisation, focusing chiefly on attracting foreign investment, increasing the presence of local companies and their competitiveness on international markets, promoting the region tourist offer and agrifood products worldwide, training local and foreign managers and officers on key subjects related to international trade. Piemonte Agency was created in 2006 by Piemonte Region and Unioncamere Piemonte, in agreement with business associations and the academic world.

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PR

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SE-B

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IA

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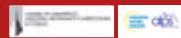
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SE-03

L'Istituto Nazionale di Ricerca Metrologica (I.N.R.I.M) è ente pubblico nazionale, afferente al Ministero dell'Università e della Ricerca, con il compito disvolgere e promuovere attività di ricerca nei campi della metrologia e svolge le funzioni di istituto metrologico primario, già di competenza dell'IEN e dell'IMGc ai sensi della legge 11 agosto 1991, n. 273 (istitutiva del Sistema Nazionale di Taratura). L'INRIM valorizza, diffonde e trasferisce le conoscenze acquisite nella scienza delle misure e nella ricerca sui materiali. L'INRIM è uno dei principali enti nazionali responsabili dello sviluppo della metrologia in Italia e, in particolare, dello sviluppo di studi e ricerche finalizzati alla realizzazione dei campioni primari delle unità di misura di base, supplementari e derivate del sistema internazionale delle unità di misura (SI) nei campi della meccanica, del tempo e della frequenza, dell'elettricità, della termologia, della fotometria, dell'optometria e dell'acustica, delle nanoscienze e delle nanotecnologie, nonché del trasferimento delle unità di misura dal livello di riferimento dei campioni primari a quello applicativo. Dal 1994 è attiva presso l'INRIM una facility di micro e nanofabbricazione per la realizzazione di dispositivi quantistici.

INTERNATIONAL ADVANCED RESEARCH CENTRE FOR POWDER METALLURGY AND NEW MATERIALS (ARCI)



BALAPUR POST, 500005 HYDERABAD,
ANDHRA PRADESH- CENTRE FOR
NANOMATERIALS
TEL. 0091 4024443170
FAX 0091 24442699
WWW.ARCI.RES.IN

IA

The International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI) is an autonomous R&D Centre of Department of Science and Technology (DST), Government of India located in Hyderabad, India. ARCI has been setup with a mission to develop unique, novel and commercially viable technologies in the area of advanced materials and subsequently transfer them to industries. The thrust areas of R&D at ARCI are Nanomaterials, Engineered Coatings, Ceramics Processing, Laser Materials Processing and Fuel Cells.

The materials related technologies being developed at ARCI are either developed in-house or sourced from other institutions (not only in India but also in other countries). It has collaborations with more than 15 countries. The Centre's effort to effect technology transfers have already met with substantial success. So far, ARCI has already transferred 17 technologies to 30 entrepreneurs throughout the country and these are finding use in diverse industry segments.

Apart from technology development, demonstration, transfer and incubation, ARCI is also fully geared up to execute projects leading to development of advanced materials and components. ARCI carries out sponsored/contract research for both public and private industries.

EXHIBITION

ITER



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SE-01

Acronym of Innovation: Technologies, Experience and Research, since 1989 ITER is the Business to Business atelier, capable of tailoring bespoke services for the scientific and business world. ITER organizes successful Seminars, Congresses and Exhibitions on innovative topics, such as:

- biotechnologies
- nanotechnologies
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Furthermore, ITER takes care of editing specialized printed material concerning ICT world dedicated to the professional field, and therefore ITER can produce publishing services by writing and printing specialized contents: research, handbooks, books and brochures, even if in limited edition. Since the beginning the philosophy of ITER has been dedicated to flexibility, always offering rapid and, above all, effective solutions for any needs.

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J PUBLISHING & MEDIA



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PR

Ever since its foundation, JPM has been operating to "bring the readers closer to technology and business opportunities". This goal can be obtained through an exclusive and innovative strategy in the national scenario: promoting technological know-how of companies, aiming to inform the industrial world and boost its growth. JPM mission is to spread a technology and innovation oriented know-how in order to ease company growth; a culture made of involvement, thoughts, intuition and based on the value created by the continuous creativity of high quality business to business magazines: m&a meccanica & automazione, pm progettazione macchine, a&s automazione&strumentazione.

More than 25,000 copies per month are delivered to company owners, managing and production directors, marketing managers operating as decision makers mainly in small and medium businesses.

EXHIBITION

LATEMAR



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FAX +39 011 91364.90
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SE-02

Xlab (www.polito.it/micronanotech) is a laboratory dedicated to design and realization of micro and nanosystems with a specific focus on technological transfer. The laboratory collects technological and fundamental knowledge for materials analysis, processes, devices and circuits design suitable for MEMS and NEMS.

Politecnico of Torino, as responsible of the fÓlab, on 2005 was funded by the Italian University Ministry as coordinator of LATEMAR enterprise for the creation of a Centre of Excellence involved in public and private researches in the strategic fields of nanotechnologies applied to biotech. LATEMAR (LAboratorio di Tecnologie Elettrobiocromatiche Miniaturizzate per l'Analisi e la Ricercal) is a diffused laboratory that merges and coordinates the excellences in the basic research related to the development of micro and nano-devices and sensors for genomic, post-genomic and biomedicine together with R&D centres of extremely qualified Companies.

Focus of the Lab is the development of advanced devices for diagnostics and therapeutics in the biomedical, pharmacological and food fields, in particular for DNA, RNA, proteins and cells analysis. The initiative is included into the great effort that Politecnico of Torino is leading to encourage the application of new technologies in all the industrial sectors.

LEICA MICROSYSTEMS



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WWW.LEICA-MICROSYSTEMS.COM

SE-06

Leica Microsystems sviluppa il meglio di 5 marchi con grandi tradizioni nella microscopia e preparazione: Leitz, Wild, Reichert, Jung and Cambridge Instruments; da molti anni leader nel mercato mondiale assolvendo ogni giorno la missione di essere il fornitore di prima scelta per le soluzioni innovative alle necessità dei nostri clienti. La gamma prodotti include microscopi per didattica, applicazioni medicali e laboratori clinici, investigazione scientifica, microchirurgia, microscopia confocale.

Leica Microsystems is a leading global designer and producer of innovative high-tech precision optics systems for the analysis of microstructures. It is one of the market leaders in each of the fields of Microscopy, Confocal Laser Scanning Microscopy, Imaging Systems, Specimen Preparation and Medical Equipment. Comprising nine manufacturing facilities in seven countries, sales and service companies in 20 countries and an international network of dealers, the company is represented in over 100 countries.



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WWW.LIFECAREINNOVATIONS.COM

IA

Lifecare Innovations is focused on development and commercialisation of strategically designed controlled release formulations for targeted, long duration sustained release of drugs employing predominantly liposome technology in combination with nanosomisation process and nanotechnology for encapsulation of drugs in a variety of biocompatible and bio-degradable polymers for sustained release. Three products that have been already commercialised are:

- **FUNGISOME™ i.v. (Nanosomal Amphotericin B)**
The nanosomisation of this drug before administration results in optimisation to give unprecedented higher successful response of >90% for the treatment of systemic fungal infections with Amphotericin B toxicity reduced to near zero.
- **FUNGISOME™ Gel (Nanosomal Amphotericin B)**
Nanosomised Liposomal Amphotericin B has been stabilised in the Gel for the treatment of topical fungal infections and cutaneous leishmaniasis.
- **PSORISOME® Gel (Nanosomal Dithranol)**
Soft nanosomal drug is transdermally transported to prevent undesirable oxidation of Dithranol rendering the drug patient friendly and therefore enabling complete treatment of otherwise difficult to treat psoriasis.

The company has interest in co-development and contract research for development of both oral and injectable nano-formulations. Proposals are also solicited for partnering at clinical trial stage for oral sustained release nano-drug for tuberculosis.

LUX RESEARCH



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WWW.LUXRESEARCHINC.COM

IA

Lux Nanomaterials Intelligence helps companies make sense of the nanomaterials landscape and make wise decisions by providing:
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3) On-demand Custom Inquiry with Lux Research Analysts

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Clients also have the ongoing opportunity to direct questions towards Lux Research Analysts, answered during conference calls or in email.

Analyst inquiry can:

- Provide additional depth on published research;
- Support ongoing efforts in technology scouting, screening, partnership search and market assessment;
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HTTP://NANOCARE.SE

IA

Nano Care Sweden distributes nanotechnological coatings to large concrete companies in Sweden, Israel and Romania. We are very interested of starting up with nano for textile. We have good connections in the clothing and boat business. We are also under also negotiation with hospitals in sweden and Israel.

Our purpose is to make an antibacterial enviroment. We are also marketing a new enviromental concept for large hotells and hospitals.

The company strengths are:

- HIGH END PRODUCTS: Bipolar transitors;
- PATENTS/LICENSES/TRADE MARKS/QUALITY CERTIFICATIONS: ISO;
- INNOVATIVE PROCESSES/SERVICES/PRODUCTS: sol gel technological products;
- NETWORKING: Germany, China, Israel Romania, Finland, England.

NANOMATERIALS TECHNOLOGY PTE LTD



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SALES@NANOMT.COM
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IA

Founded in Singapore in April 2000 by Dr. Jimmy Yun and Prof. Chen Jianfeng.

Business focus on the development and commercialization of production technologies on nanomaterials for the pharmaceutical, medical, electronic material and specialty chemicals sectors.

Develop and out-license nanotechnology solutions based on its proprietary technology platform known as High Gravity Controlled Precipitation (HGCP):

- Currently, working with several MNCs in the US, Europe and Asia-Pacific;
- Included in a 2004 report by Lux Research (US) as one of the top 7 private nanotechnology companies in Asia;
- Two R&D labs - one in Singapore (30 staff) and one in Beijing (20 staffs);
- Singapore R&D lab covers 12,000 sqft which consists of Particle Engineering lab, Pharmaceutical lab, Analytical lab and GMP facility;
- Two SBUs - Pharmaceutical Division and Specialty Chemical Division;
- Pharmaceutical Division - focus on solid oral dosage and inhalation drugs;
- Specialty Chemical Division - nano-precipitated calcium carbonate (out-licensed), high transparency and solid content mono-dispersion metal oxides (ZnO, TiO₂, CeO₂ and SiO₂), iron oxides, barium titanate, etc.

EXHIBITION

NANOMATERIALS.IT



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WWW.NANOMATERIALS.IT

SE-07

La Nanomaterials.it è una società italiana che ha per scopo lo sviluppo, la produzione e la commercializzazione di materiali e superfici nanostrutturate per applicazioni fotoniche, microfluidiche, photocatalitiche, sensoristiche e biomedicali. La Nanomaterials.it è specializzata nella produzione con tecniche elettrochimiche di membrane nanoporose di allumina e titania anodica, di nanofili e nanoparticelle metalliche. La Nanomaterials.it è interessata a collaborazioni con società ed enti di ricerca per lo studio, lo sviluppo e la produzione di materiali e dispositivi ad elevato contenuto tecnologico.

Nanomaterials.it is an Italian company aimed at the development, the production, and the commercialization of nanostructured materials and surfaces for photonic, microfluidic, photocatalysis, sensing and biomedical applications. Nanomaterials.it is specialized in the production by means of electrochemical techniques of nanoporous membranes of anodic alumina and titania, nanowires and metallic nanoparticles. Nanomaterials.it is interested to collaborate with companies and research institutes for the study, the development and the manufacture of technologically advanced materials and devices.

NANOSURFACES



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WWW.NANOSURFACES.IT

SE-08

NanoSurfaces, spin-off of Politecnico di Milano, was created for providing surface treatments and finishing of titanium, tantalum and other high technology alloys for biomedical devices and high technological applications. NanoSurfaces offers titanium and its alloys surface treatments for improving metal osteointegration, anti-bacterial properties, anti-fretting and anti-galling feature. Furthermore, NanoSurfaces owns exclusive know-how for high quality titanium coloring. NanoSurfaces provides surface treatments for: Biomedical applications: dental and orthopedic prosthesis where osteointegration, anti-bacterial properties and low fretting corrosion are requested features; Mechanical applications: surface treatments for anti-galling, high wear resistance and low fretting corrosion application in aerospace, naval and mechanical fields; Design and architecture applications: high quality coloring for inside and outside panels and valuables, and anti-pollution and anti-smoke surface treatments NanoSurfaces boasts exclusive ownership of the following trademarks: BioRough™, BioSpark™, TiCare™, TiHard™ and TiColor™.

EXHIBITION

NATIONAL INSTITUTE FOR INTERDISCIPLINARY SCIENCE AND TECHNOLOGY (FORMERLY RRI)



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SCIENCE AND TECHNOLOGY DIVISION,
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IA

The National Institute For Interdisciplinary Scienze And Technology is a constituent Laboratory of CSIR, India engaged in R&D Programs in the area of Agroprocessing, Chemical Sciences, Materials & Minerals, Biotechnology and Process Engineering and Environmental Science & Technology. The programmes have a blend of basic research and technology development & commercialisation; have specific thrusts on frontier areas of research, National Mission Projects, regional resource-based activities and R & D - Industry - Academia linkages. The Laboratory has excellent collaborative programmes with major National & International agencies too. The main activities are research, development and human research in the areas of chemistry and materials science.

The company strengths are:

- HIGH END PRODUCTS: Functional nanomaterials;
- R&D: Nanomaterials, Chemistry;
- EXPERTISE: Chemistry, Materials Science photochemistry and photophysics.

PLASMA SOLUTION



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WWW.PLASMASOLUTION.IT

SE-D

First spin off-company of the University of Bari (UNIBA), PLASMA SOLUTION (PS) is founded in 2004 by R. d'Agostino, F. Fracassi and P. Favia, professors at the UNIBA Department of Chemistry with vast know-how in Plasma Chemistry.

PS optimizes, tailors and scales-up for the customer surface modification plasma processes for packaging, textiles, paper, polymers, composite materials, biomaterials, design, corrosion protection, cultural heritage, and other areas.

PS can realize reactors of different dimensions, engineered for the research, industrial and economical needs of the customer.

PROCESSES: improved adhesion between materials; protective anti-corrosion anti-tarnish coatings for metals/alloys; protective layers on stone materials; printable, anti-stain and flame-retardant surfaces for paper, polymers and textiles; hydrophilic surfaces; super-hydrophobic surfaces; hard anti-scratch films; processes for biomedical applications; processes for filters and membranes; anti-bacterial coatings; detaching coatings for moulds; anti-counterfeiting processes; treatment of powders; non fouling surfaces; reduced friction surfaces, anti-ice and self-cleaning surfaces.

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Politecnico is one of the most prestigious tecnico-scientific institutions in Italy. Laboratories and Technology Transfer Centers are active in all the fields of engineering and architecture. Nanotechnology/nanoscience is one of the strategic fields. For what concerns didactic an International Master of Science in Micro and Nanotechnologies for Integrated Systems (www.master-nanotech.com) is present together with Masters of Science in Material Science and Physical Engineering. The PhD School founded an Excellence Programm (<http://sipd.polito.it>) where nanotechnologies and nanosciences are an element of prestige. Research on subjects related to nanotechnologies are developed in several Departments (Physica, Materials Science, Electronics). Two dedicated laboratories are present: the Materials and Microsystems Laboratory (CHI-LAB www.polito.it/micronanotech) and the National Excellence Laboratory LATEMAR (www.latemark.polito.it). Politecnico is also involved in several Research Institutes: Ist. Marco Boella www.ismb.it; Tecnogrande www.tecnogrande.it; HuGeF focused on genomic researches. Politecnico has also a strong tradition of research in collaboration with the industrial sector. Nanotechnologies and nanstructured materials are surely one of the most promising way for innovation and for the increase of competitiveness of national industry (www.research.business.polito.it/turin).

SE-02

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Promedia Publishing is a specialized editor in technical issues. It's publish 3 magazines in two languages (italian/english) dedicated to food & beverages techniques, as Food Machines, Beverage Machines and Rivista del Latte, the Enorama yearbook, a real 'vademecum' about the bottling industry. In 2004 Promedia becomes the new editor of 'La Chimica & l'Industria' historical magazine of applied chemistry world and official houseorgan of Società Chimica Italiana. In 2007, Promedia publish LAB, a monthly issue dedicated to all laboratory equipments and methods for analysis applied in various sectors. The presence at most important exhibitions all over the world, the propose of great contents and grafic effect's magazines, the editing of special edition focused on companies with great care, makes of Promedia Publishing an appreciated and innovative editorial reality in the economy and industry world.

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SE-F

PSD Distribution Group, gruppo leader in Italia nel settore dell'auto ID aziendale, con la sua tecnologia e la pluriennale conoscenza del mercato è in grado di appagare ogni sete di innovazione offrendo i migliori prodotti dell'auto ID a tutti i suoi clienti ed associati.

PSD Distribution Group il marchio che ha saputo riunire le energie e le risorse di partner specializzati da anni nel settore dell'Auto ID e Data-Entry diventando punto di riferimento per il mondo del barcode e dell'identificazione automatica.

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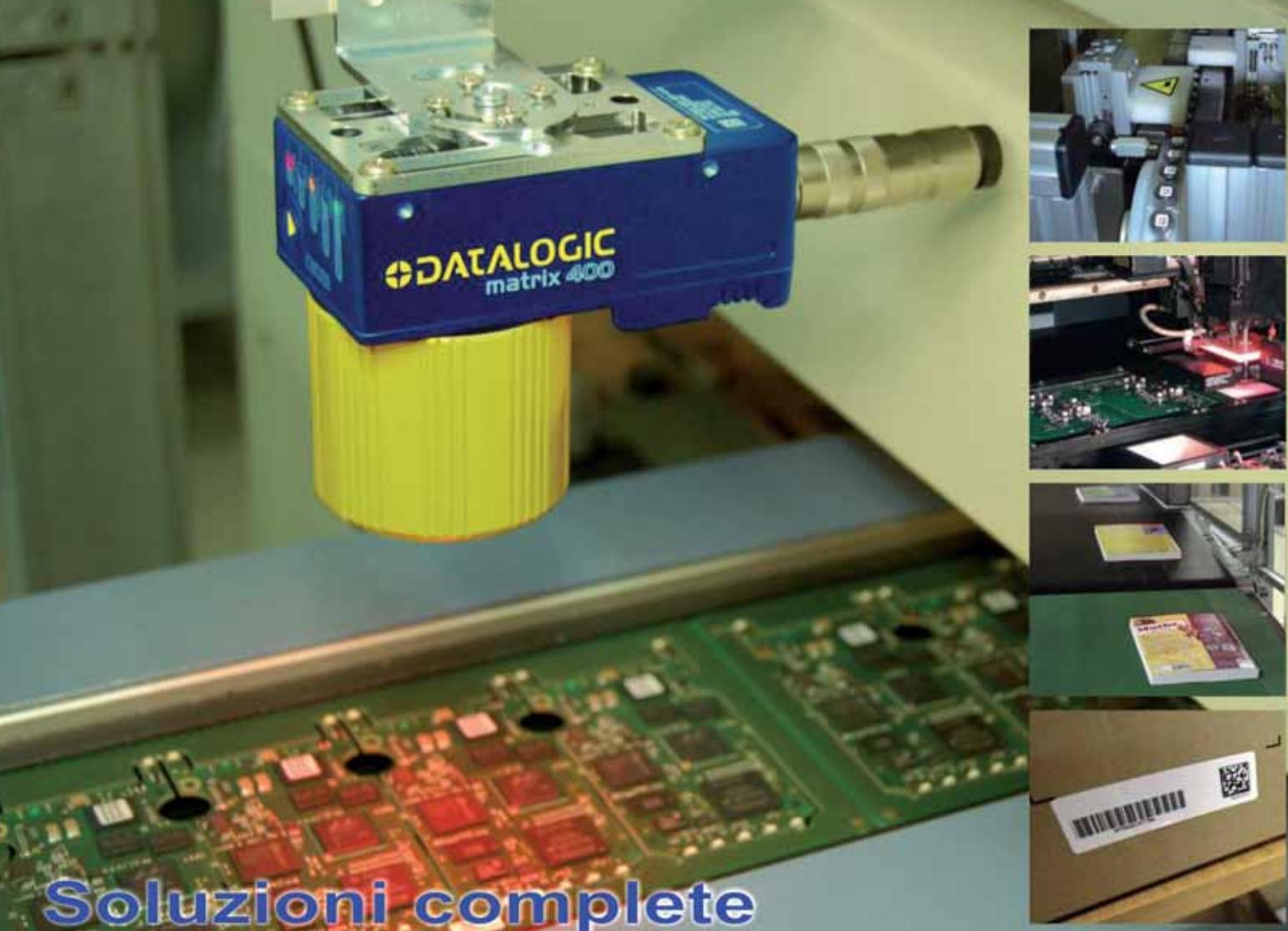
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PR

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IA

Samsung Electronics is a global leader in semiconductor, telecommunication, digital media and digital convergence technologies with parent company sales of US\$70 billion and net income of US\$9 billion. Employing approximately 138,000 people in 124 offices in 56 countries, the company consists of five main business units: Digital Media Business, LCD Business, Semiconductor Business, Telecommunication Network Business and Digital Appliance Business. Recognized as one of the fastest growing global brands, Samsung Electronics is a leading producer of digital TVs, memory chips, mobile phones and TFT-LCDs.

- * Mobile Phone Housing Application;
- Nano-coating on window glass for anti-fingerprint or anti-glare;
- Nano-composite for phone frame material;
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- * Semiconductor Manufacturing;
- Nano-coating on Silicon Wafer;
- Nano-etching for Manufacturing Semiconductor Memory;
- Nano-lithography.

SII NANOTECHNOLOGY INC.



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ANTO.YASAKA@SIINT.CO.JP

IA

SII NanoTechnology Inc., a subsidiary of Seiko Instruments Inc. (SII), is a leading company in the development of advanced, leading edge measurement and analysis instruments for nano-scale-applications. Its head office is located in Chiba, Japan. It is the first Japanese company to commercialize Scanning Probe Microscopes (SPM) and Focused Ion Beam (FIB) Systems.

The company's product line-up also includes X-ray Fluorescence (XRF) Analyzers, XRF Coating Thickness Gauges, Thermal Analysis Systems, Inductively Coupled Plasma Optical Emission Spectrometers (ICP-OES), ICP Mass Spectrometers (ICP-MS) and Mask Repair Systems. Many of these products are utilized to support leading edge research and development. Additional information about the company is available on the Internet at <http://www.siint.com/en/>.

EXHIBITION

STEIKOS



VIA PIETRAMARINA, 123
50053 SOVIGLIANA VINCI (FI), ITALY
TEL. +39 0571 7091
FAX +39 0571 709866
INFO@STEIKOS.COM
WWW.STEIKOS.COM

SE-12

Steikos è una nuova realtà imprenditoriale promossa da Colorobbia Italia, la principale società del Gruppo Colorobbia, uno dei maggiori player mondiali nello sviluppo e nella produzione di materiali e tecnologie per il settore ceramico e da AZ tech, azienda di riferimento per la progettazione e produzione di materiali anidri in polvere, impiegati nell'edilizia e più in generale nell'ambito delle costruzioni. Steikos entra nel settore dei materiali nanostrutturati con un'impronta dinamica e innovatrice, offrendo ai propri clienti una gamma articolata di formulati a base di nanomateriali interamente di produzione propria, brevettati e di riconosciuta qualità. Il mercato dei materiali nanostrutturati e in particolare quello dei prodotti photocatalitici, è caratterizzato da un'offerta standardizzata e non sempre adeguata ai nuovi modelli di consumo. Crescono infatti le esigenze di soluzioni vincenti per attuare politiche di sostenibilità ambientale sia da parte delle imprese che delle amministrazioni pubbliche, le quali devono rispondere al desiderio dei privati di adottare un stile di vita ecologicamente e socialmente responsabile. I sistemi nanostrutturati di Steikos sono idonei a funzionalizzare pareti interne ed esterne in materiali cementizi e/o lapidei, destinati sia all'edilizia pubblica che privata, civile, industriale, ed al recupero e mantenimento dei beni artistici e culturali, ottenendo importanti benefici: proprietà antismog, autopulenti, antibatteriche e antiodore, e di consolidamento. Coniugare sviluppo economico e rispetto dell'ambiente è un obiettivo che Steikos persegue per mezzo della ricerca scientifica e dell'innovazione tecnologica.

TATA CONSULTANCY SERVICES



TATA R&D DESIGN CENTRE,
(A DIVISION OF TATA CONSULTANCY
SERVICES LTD.)
54B, HADAPSAR INDUSTRIAL ESTATE
PUNE 411 013, INDIA
TEL. 91-20- 6608 6209 / 6608 6333
FAX 91-20- 6608 6399
MOBILE 9850984592
PRADIP.P@TCS.COM
WWW.TCS.COM

IA

Tata Research Development and Design Centre (TRDDC), a division of Tata Consultancy Services (TCS) is the largest of the twenty innovation labs as part of the corporate technology office. Its charter is to apply existing knowledge to the benefit of the industry and the people. TRDDC is today one of India's premier R&D organizations, dedicated to applying solutions based on state-of-the-art technology to the problems faced by the industry.

The focus is on providing total solutions to industrial problems through projects executed in close collaboration with our industrial partners. TRDDC's clientele includes a broad spectrum of industries, from software technology to core sectors such as: minerals, metals, chemical, manufacturing, ceramics, paints, cement and advanced materials industries.

TRDDC's unique strength lies in its interdisciplinary team of professionals in many key areas of engineering (Minerals, Mechanical, Metallurgical, Chemical, Materials and Software), and applied sciences (Mathematics, Statistics, Chemistry and Physics). Its strength is further supplemented by the software expertise of TCS and a strong linkage with academia. Based on its formidable core competency base and a proactive industrial interaction, the centre has evolved a highly flexible methodology to provide customized solutions for the clients.

Current research initiatives of the Process Engineering Laboratory include materials innovation green technologies and nano-bio technology initiatives .

EXHIBITION

TECHFAB



LOCALITÀ BARAGGINO
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WWW.TECHFABMNT.IT

SE-09

Techfab is a Competence Center and Fabrication Facility whose mission is to support businesses and research centers involved in innovative industrial processes and technology transfer in microsystems and nanotechnologies: sectors with enormous potential for revolutionizing the world of manufacturing and consumer goods. As a vital link between research and high-tech series production, Techfab offers its customers a wide range of services:

- Development of innovative manufacturing processes;
 - Production services during start-up and ramp-up phases;
 - Small-medium volume production;
 - Front-end services for high-volume production;
 - Design and product engineering for materials, devices, electronic modules and production systems;
 - Characterization, failure analysis, reverse engineering;
 - Consulting services and assistance in adopting micro/nano technologies.
- The facility is located at the Chivasso Centro exit of the A4 highway. This strategic location is served by a major high speed railway link, and is 20 kilometers from Turin's Caselle airport and 90 kilometers from Milan's Malpensa air terminal. Provided with approximately 500 square meters of cleanrooms rated at up to class 100 as well as class 1 glove boxes for processes that require absolute cleanliness, the Fabrication Facility covers an area of around 6,000 square meters, 1,800 of which are used for offices, laboratories, production and industrial logistics. The company has the skills and equipment to develop devices and produce electronic modules and integrated application solutions specified and designed together with the customer.

THE IMEGO INSTITUTE



ARVIDE HEDVALLS BACKE 4, P.O. BOX 53071,
SE-400 14,031 GOTHENBURG – SWEDEN
TEL. 0046 317501810
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IA

Outstanding expertise and research capability within nano and micro technology and sensor systems technology lies at the heart of our activities. Every research commissioned, product developed and industrial solution offered has its roots in our unique, leading-edge combination of knowledge and experience in this field.

Based on seven technical platforms, our sensor system solutions have been adapted and applied in areas as diverse as the environment, medicine, inertial navigation, biochemistry and toxin detection. Imego is a leading developer of high performance MEMS inertial sensors and small, low-weight Inertial Measurement Units. Applications based on IMU's have delivered qualified benefits in the areas of navigation, motion tracking, and stabilization and vibration detection. Molecularly Imprinted Polymers in sensorics are used to specifically bind and enrich medium and small sized molecules (i.e. molecules of the size smaller than proteins). MIPs can be used as sensing materials integrated into sensoric systems for the purpose of detecting the toxins that can appear in drinking water, agricultural products and food, to name some examples.

By utilising fluorescent probes to monitor biochemical reactions, we have developed sensor systems for specific detection purposes including detecting disease markers in blood or the occurrence of particular cells in different kinds of samples. Our focus lies in the development of dedicated, relatively cheap sensor systems that are portable, automated, easy to handle, fast and offer performance comparable to, or better than, other commercially available instruments.



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EXHIBITION

TORAY INDUSTRIES INC



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WWW.TORAY.COM

IA

Toray is a leading chemical manufacturer founded in 1926. Throughout its history, the Company has kept itself focused on research and technological development, seeking to contribute to society by creating new value.

The main business of Toray Group are Fibers and Textiles, Plastics and Chemicals, IT-Related Products, Carbon Fiber Composite Materials, Environment and Engineering, Life Science and Other Businesses, Profile of Toray Nanotechnology R&D Activity

Toray nanotech R&D is distinguished by the rigorous pursuit of nanotechnology and the integration of existing technologies with nanotech advances. The company uses this progress to take maximum advantage of dramatic performance improvements, the exhibition of new functions and other "nano effects" in rising to the challenges of "basic materials innovation" and "advanced materials and process design." There is a tendency for attention to concentrate on carbon nano-tubes and other "advanced materials and process creation" (with Toray naturally active in such R&D as well). The true Toray forte, however, lies rather in pioneering the "Foundation Businesses" in "Fibers & Textiles and Plastics & Chemicals" the products traditionally comprising the company's foundation businesses. In fact, a large number of nanotech product lines have already emerged as the fruits of this stance.

TOSHIBA CORPORATION POWER SYSTEMS COMPANY



1-1, SHIBAURA 1-CHOME, MINATO-KU,
TOKYO 105-8001, JAPAN
TEL. 0081-3-3457-4511
FAX 0081-3-3456-1631
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IA

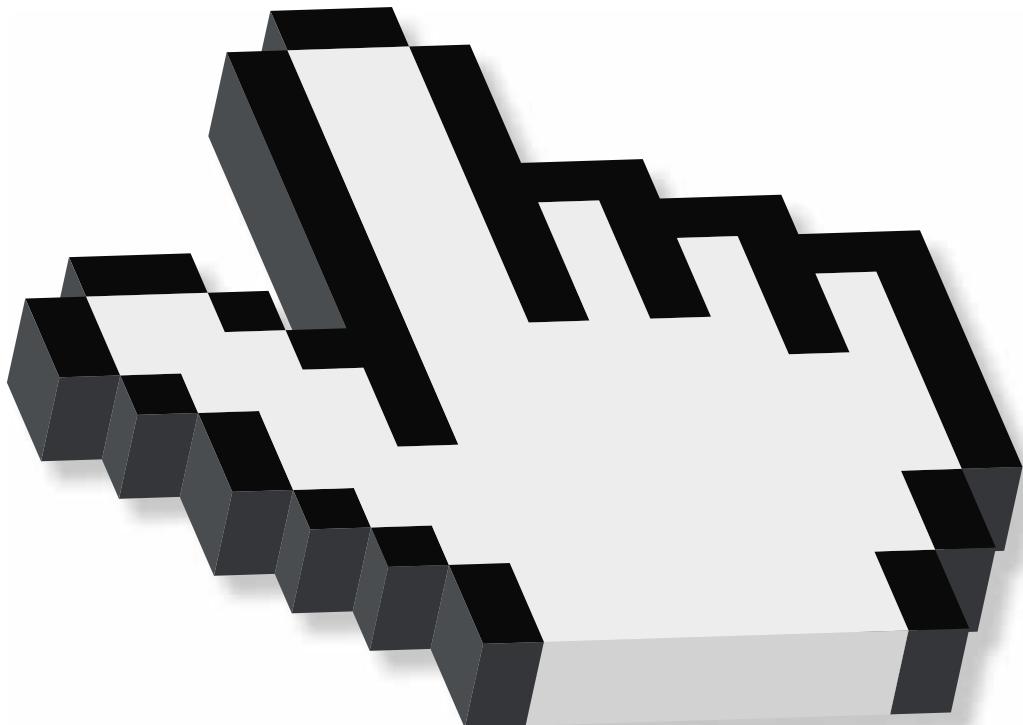
Toshiba, a world leader in high technology, is a diversified manufacturer and marketer of advanced electronic and electrical products, spanning information & communications equipment and systems, Internet-based solutions and services, electronic components and materials, power systems, industrial and social infrastructure systems, and household appliances.

Under its mid term business plan, Toshiba is working for enhanced recognition as a highly profitable group of companies, active in both high growth and stable growth businesses.

In the field of power systems, Toshiba have been engaged in the development of residential fuel cell system which enables the harmonization with the environment and the saving energy in parallel.

SERVIZIO BANNER

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Il numero sempre crescente degli utenti del web rappresenta nuove opportunità di business. Un business in cui la domanda e l'offerta si incontrano nelle prime posizioni dei risultati sui motori di ricerca. Ma i numeri da soli non bastano: occorre trovare il contatto giusto al momento giusto. I siti ITER attirano da anni un numero sempre maggiore di visitatori molto selezionati, focalizzati su tematiche precise:

Gestione elettronica delle informazioni: www.omat360.it

Nanotecnologie: www.nanoforum.it

Biotehnologie: www.bioforum.it

e naturalmente, www.iter.it

Richieda subito il listino contattandoci ai riferimenti in calce!



EXHIBITION

TRUSTECH



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SE-E

TRUSTECH positions itself on the marketplace of technology consulting services with a great capability in terms of connecting the business world with scientific research, this being contributed by Polytechnics, Universities, Research Labs and professional researchers. TRUSTECH stays side by side with its client companies throughout the life of an innovation project: from the initial research of necessary competencies through to the making of the team, the determination and control of costs, quantification and realization of benefits. We put much care in planning required activities, in implementing pragmatic means and measures, in searching for investments and potential investors, in intellectual property rights and in problem solving. TRUSTECH relies on an excellent Scientific Network whose parties have been carefully selected on the base of their ability to support the required technological solutions as well as on their highly qualified staff. TRUSTECH is the ideal partner in terms of governing the entire innovation project, thus increasing the safety of the investments put towards technological innovation. TRUSTECH speeds up the implementation of such projects, thus anticipating their return on investment.

UNIVERSITÀ DI TORINO NIS



Università degli Studi di Torino

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I-10125 TORINO (TO), ITALY
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SE-05

The Centre of Excellence "Nanostructured Interfaces and Surfaces" originates from the joint effort of several research groups of the University of Turin in the fields of Chemistry, Physics and Biology. These groups are involved since a long time in a network of interdisciplinary research collaborations. The Centre "Nanostructured Interphases and Surfaces" has the dual mission of pursuing basic research and offering applied research services. It will enable non-academic researchers and technicians, in particular from the industry, to take advantage of the competence and the instrumentations of the affiliated groups. The Centre offers a multi-disciplinary laboratory equipped with the most advanced techniques in microscopy and spectroscopy, and it will promote consultancy to external researchers to enforce collaboration with academic research labs. These services are addressed both to large companies, with whom several collaborations and synergies are already in place, and to the small and medium enterprises lacking their own research infrastructures.

Research lines at NIS are the following:

1. Nanostructured metallic materials - 2. Methods for materials and surfaces modelling - 3. Thin polyfunctional nano- and micro-structured layers of semi- and super-conductor materials - 4. Surface chemistry 5. Hydrogen: materials for its production and storage - 6. Nanostructured materials for adsorption and catalysis - 7. Photoactive materials and molecules - 8. Supramolecular chemistry - 9. Biocompatibility, bioactivity and toxicity of nanomaterials - 10. Biophysics, biosensors and neurochips - 11. Nanostructured, nanocomposite and functional polymer materials and carbons - 12. Technology and knowledge transfer

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ALTRI INFORMAZIONI: tel. +39 02 9288 4780 - info@w4i.it

EXHIBITION

VARIAN TECHNOLOGIES



VARIAN

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FAX +39 011 9979350
WWW.VARIANINC.COM

SE-11

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TEL. 0091 2265802453/2265781608
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VAUBT@VSNL.COM
WWW.VIRTUSTI.COM

IA

Our major activity is in the area of "In Vivo Gene Repair" by topical ingestion of organic nano trace mineral and amino acids for anti aging and reversal of ageing. The human clinical trials are on currently.

Our second thrust is in the area of nano-tribology viz. sputtering machines and electroless coating. We have filed patents for 31 products till date 8 for S.N.1 and 23 for above point. We have also succeeded in making nano silver and nano gold gel by a cost effective route. Our patented products viz. Nano Silver Gel and Nano Gold gel are liable to be launched in next 6 months.

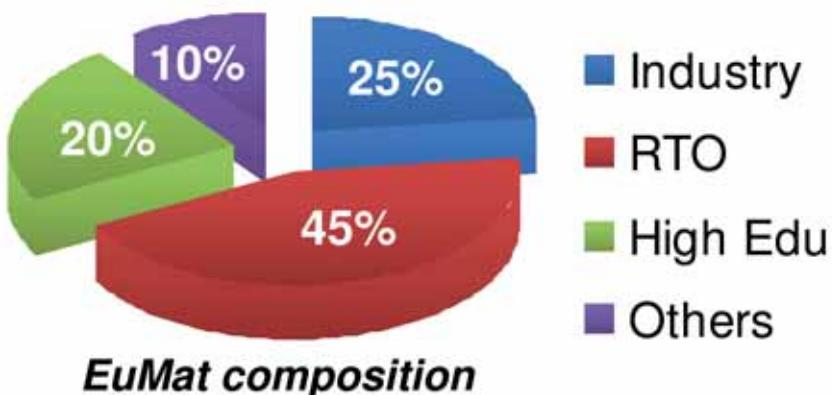


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'For Europe to be one of the foremost advanced technological societies in which world-class materials expertise underpins sustainable growth'



Four working groups focused on:

- Energy materials***
- Multifunctional materials***
- Nanomaterials and nanoassembled materials***
- Multiscale modelling***

EXHIBITION

XZERO AB



RIDDARGATAN 16,
11451 STOCKHOLM- SWEDEN
TEL. 0046 88-6603964
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New Chemical Technology



Università degli Studi di Torino

PANORAMA



Queste due pagine consentono di vedere "a colpo d'occhio" le iniziative previste come Conferenza, Eventi Satellite e nanoforumTour. Mostra specializzata, Media Partner e Poster sono nelle pagine precedenti; Partnering 1to1 sono in fondo. L'Indice è a pag. 4



With these two pages you have a "panorama" of Conference sessions, Satellite Events and nanoforumTour. Specialized Expo, Media Partner, Poster are in the previous pages. Partnering 1to1 at the end. Index at page 4

TUESDAY 9TH JUNE 2009

	14:15 - 15:45 TUTORIAL GENERALE Chairperson: Prof. Paolo Dario
	16:00 - 17:00 TUTORIAL NANOMECCANICA & MEMS Chairperson: Prof. Paolo Dario
	16:00 - 17:00 TUTORIAL NANOMEDICINA Chairperson: Dott. Matteo Cocuzza
	16:00 - 17:00 TUTORIAL ENERGIA Chairperson: Prof. Giancarlo Cicero

WEDNESDAY 10TH JUNE 2009

	09:15 - 10:45 BUSINESS OPPORTUNITY: NANOMECHANICS & MECHATRONICS Chairperson: Ing. Dario Scapaticci
	09:15 - 10:45 BUSINESS OPPORTUNITY: NANOMEDICINE Chairperson: Dott. Fabrizio Conicella
	09:15 - 10:45 BUSINESS OPPORTUNITY: ENERGY Chairperson: Prof. Guido Saracco

11:15 - 12:45 PLENARY SESSION Chairperson: Dott. Sandro Bonomi			
	14:15 - 15:45 TESSILE - PROGETTO PLASMATEXT Chairperson: Prof. Alberto Cigada		14:15 - 15:45 NANOMEDICINE Chairperson: Prof. Fabrizio Pirri
	16:15 - 17:45 TESSILE II Chairperson: Dott. Franco Piunti		16:15 - 17:45 HEALTH & SAFETY Chairperson: Prof.ssa Bice Fubini
	14:15 - 15:45 TOOLS & METROLOGY Chairperson: Prof. Gian Bartolo Picotto		14:30 - 17:45 SATELLITE EVENT - NANOTECHNOLOGY & EDUCATION IN THE FRAMEWORK OF "LA STORIA NEL FUTURO" ORGANIZED BY POLITECNICO OF TURIN Chairperson: Prof. Marco Fanciulli

PANORAMA

THURSDAY 11TH JUNE 2009

09:15 - 10:45 FUNCTIONAL MATERIALS I Chairperson: Prof. Adriano Zecchina Prof. Carlo Enrico Bottani	09:15 - 10:45 BENI CULTURALI Chairperson: Prof. Oscar Chiantore	09:15 - 10:45 SENSORI & MEMS Chairperson: Dott. Carlo Ricciardi Prof. Guido Faglia	09:15 - 11:00 SATELLITE EVENT - NANOTECNOLOGI: DOV'È LA PROSSIMA GENERAZIONE?
11:15 - 12:45 FUNCTIONAL MATERIALS II Chairperson: Prof. Salvatore Iannotta	11:15 - 12:45 AGRO-ALIMENTARE Chairperson: Prof. Francesco Geobaldo	11:15 - 12:45 VACUUM & THIN FILMSLI Chairperson: Prof. Fabrizio Giorgis	11:15 - 12:00 SATELLITE EVENT - ANNUAL MEETING OF LATEMAR
14:15 - 15:45 PROPRIETÀ INTELLETTUALE & TRASFERIMENTO TECNOLOGICO Chairperson: Dott.ssa Nicoletta Marchiandi	14:15 - 15:45 ENERGY Chairperson: Prof.ssa Elena Tresso	14:15 - 15:45 AEROSPACE Chairperson: Dott.ssa Erika Calvi	13:30 - 17:30 SATELLITE EVENT - ANNUAL MEETING OF LATEMAR II
16:15 - 17:45 ARCHITECTURE & DESIGN Chairperson: Prof. Alberto Cigada	16:15 - 17:45 AMBIENTE Chairperson: Prof. Salvatore Coluccia	16:15 - 17:45 AUTOMOTIVE Chairperson: Ing. Gianfranco Innocenti	

WEDNESDAY 10TH JUNE 2009

nanoforumTour 18:15 - 20:00 visita a EnviPark via Livorno, Torino È necessario essere iscritti a nanoforum, aver richiesto di partecipare alla visita ed aver ricevuto conferma il pomeriggio precedente. Per maggiori informazioni >> www.nanoforum.it/tour	nanoforumTour 6:15 pm - 8:00 pm visit of EnviPark via Livorno, Torino It is necessary to be registered at nanoforum2009, to apply for participation to the nanoforumTour and to have received a confirm the previous day. For further information: www.nanoforum.it/tour
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FRIDAY 12TH JUNE 2009

nanoforumTour 09:00 - 10:00 visita a CRF - Centro Ricerche Fiat Stradale Torino, 50 - Orbassano (To) 10:30 - 12:30 visita ad Alenia Aeronautica Stabilimento Caselle Nord - adiacente Aeroporto di Caselle 14:30 - 16:00 visita al Centro Conservazione e Restauro La Venaria Reale, Piazza Repubblica - Venaria Reale TO	nanoforumTour 9:00 am - 10:00 am visit of CRF - Centro Ricerche Fiat Stradale Torino, 50 - Orbassano (To) 10:30 am - 12:30 am visit of Alenia Aeronautica Caselle Nord Plant - near Caselle Airport 2:30 pm - 4:00 pm visit of Centro Conservazione e Restauro La Venaria Reale, Piazza Repubblica - Venaria Reale TO
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TUESDAY 9TH JUNE
TUTORIAL GENERALE

14:15 - 15:45



CHAIRPERSON: PROF. PAOLO DARIO
SCUOLA SUPERIORE SANT'ANNA DI PISA

Le nanotecnologie sono l'insieme dei metodi, delle tecniche e dei processi che consentono di osservare, misurare e manipolare la materia su scala atomica e molecolare.

La nanotecnologia consente quindi il controllo della materia su scale dimensionali tipicamente comprese tra 1 e 100 nanometri: le proprietà macroscopiche dei sistemi risultanti dipendono in modo diretto dalle caratteristiche di forma e composizione su questa scala.

Divengono in questo modo accessibili proprietà e funzionalità grandemente migliorate o del tutto nuove e largamente indipendenti dalla mera composizione chimica dei sistemi.

In questa introduzione verrà enfatizzata la natura pervasiva di queste tecniche e il loro potenziale in campi tradizionalmente distinti quali l'elettronica, il biomedicale o la farmacologia. Saranno anche discussi l'impatto industriale e le previsioni correnti sui tempi in cui il potenziale rivoluzionario della nanotecnologia raggiungerà il mercato.

CHAIRPERSON



Paolo
Dario

TUESDAY 9TH JUNE

TUTORIAL NANOMECCANICA & MEMS

16:00 - 17:00



CHAIRPERSON: PROF. PAOLO DARIO
SCUOLA SUPERIORE SANT'ANNA DI PISA

Parte degli studi che hanno dato inizio alle nanotecnologie una ventina di anni fa, oggi si stanno concretizzando e siamo entrati nell'era prettamente attuativa. Lo sviluppo delle conoscenze e delle tecnologie alla nanoscala sta determinando una rivoluzione nel modo di concepire, progettare e realizzare prodotti e sistemi. Il concetto di nanotecnologia dev'essere inteso in un contesto multiculturale: è un nuovo modo di pensare alle culture esistenti e si applica a tutte le necessità umane: dal cibo all'energia, dai materiali alla meccanica e medicina, dall'informatica all'ambiente.

I settori dei materiali, delle superfici e della meccanica sono quelli tra i maggiormente influenzati dalla "rivoluzione nanotecnologica". Sono infatti disponibili sul mercato materiali nanostrutturati polimerici, metallici, ceramici; tecnologie di nanostrutturazione volumica di superficie con processi fisico-chimici; film sottili e funzionalizzazioni per l'ingegnerizzazione delle proprietà di superficie (proprietà meccaniche, ottiche, estetiche, ...). Attraverso l'integrazione di funzionalità elettroniche, sensoristiche e fluidiche in componenti meccanici è estremamente produttivo il settore dei micro-electro-mechanical systems (MEMS) e nano-electro-mechanical systems.

Applicazioni state sviluppate per l'industria dei rivestimenti decorativi o funzionali, per il settore automobilistico, per i processi chimici tradizionali a forte impatto ambientale (processi di finissaggio o tintura, o rivestimenti galvanici), per l'industria tessile. Lo scopo è sviluppare tecnologie ad alto valore aggiunto per la creazione di nuove funzionalità e lo sviluppo di tecnologie innovative a basso impatto ambientale, come la deposizione di film sottili in vuoto o da trattamenti al plasma a pressione atmosferica.

CHAIRPERSON



Paolo
Dario

TUESDAY 9TH JUNE

TUTORIAL NANOMEDICINA

16:00 - 17:00



CHAIRPERSON: DOTT. MATTEO COCUZZA
INFM (C/O POLITECNICO DI TORINO)

L'eccezionale combinazione delle micro e nanotecnologie per lo sviluppo di sistemi miniaturizzati e di dispositivi/materiali avanzati per le applicazioni salute e biotecnologie sta attualmente dimostrando un impatto profondo e pervasivo nel settore medicale, dal momento che la richiesta di miniaturizzazione e funzionalità avanzate per una nuova generazione di dispositivi è quanto mai crescente. Un elenco assolutamente non esaustivo delle applicazioni tipiche, presenti e future delle micro e nanotecnologie comprende: la somministrazione di farmaci, l'ingegneria tessutale, la sensoristica miniaturizzata e/o innovativa (sia per applicazioni in-vitro che per applicazioni in-vivo), la sensorialità artificiale o il recupero della naturale sensorialità, la chirurgia o la terapia minimamente invasiva, la tecnologia dei Lab-on-a-chip, ecc. In generale il maggior impegno è attualmente rivolto alla miniaturizzazione dei dispositivi attualmente in uso (soprattutto per scopi applicativi in-vivo), all'aumento della biocompatibilità (soprattutto quella di lungo termine), al miglioramento in termini di numero di funzionalità integrate contemporaneamente su un dispositivo (preparazione automatizzata del campione, rivelazione integrata, sintesi su chip, aumento del numero di parametrici fisiologici monitorati in contemporanea, ...), all'incremento dell'accuracy (che ha come diretta conseguenza il miglioramento di diversi aspetti della diagnostica) e alla diminuzione del tempo di misura e di analisi. Scopo del tutorial è di fornire una panoramica della attuali applicazioni delle micro e nanotecnologie al settore della medicina e della cura delle salute più in generale, e di delineare l'evoluzione futura nei suoi contenuti più significativi, in modo da fornire al fruitore gli strumenti minimi per condurre la sua esperienza di approfondimento di questo mondo sempre più "tecnologicamente" sorprendente.

The powerful combination of micro and nano technologies to develop miniaturized systems and advanced devices/materials for health/biotech applications is currently exhibiting a pervasive and profound impact on the medical sector, since miniaturization and sophisticated functionality for improved or new types of devices is increasingly demanded. A not exhaustive list of present and future typical applications of micro and nano technologies comprises: drug delivery, tissue engineering, advanced and miniaturized sensing (both for in-vitro and in-vivo applications), artificial senses or senses recovery, Minimally Invasive Surgery (MIS) and Therapy (MIT), Lab-on-a-chip technology, etc. In general current efforts are aimed to the miniaturization of existing devices (especially for in vivo purposes), increase in biocompatibility (in particular long-term biocompatibility), increase in functionality (automated sample preparation, built-in detection, on-chip synthesis, increased number of parameters monitored, ...), increase in accuracy (for improved diagnostics for instance) and decrease in time for measuring and analysis. Aim of the tutorial is to provide an overview of the current applications of micro and nanotechnologies to the medicine and health sector and to delineate the most significant future evolution, so to give to the listener the minimal instruments to get around into this amazing world and to be able to achieve his own deeper insight.

CHAIRPERSON



Matteo
Cocuzza

TUESDAY 9TH JUNE

TUTORIAL ENERGIA

16:00 - 17:00



CHAIRPERSON: PROF. GIANCARLO CICERO
POLITECNICO DI TORINO

Fin dai tempi in cui Edmond Becquerel scoprì l'effetto fotoelettrico nel 1839, ricercatori ed ingegneri sono stati affascinati dall'idea di catturare e convertire l'energia fornita dal Sole sottoforma di radiazione in energia elettrica o in combustibili (e.g. idrogeno). Fino ad ora, la ricerca in ambito fotovoltaico (la trasformazione di luce solare in elettricità) è stata dominata dallo studio e dall'ottimizzazione di dispositivi basati su giunzioni allo stato solido, realizzati prevalentemente in silicio cristallino. Negli ultimi 30 anni sono stati fatti notevoli progressi per aumentare dell'efficienza di questi dispositivi, passando da una efficienza di conversione di energia solare del 25% con celle a cristallo singolo ad una efficienza di circa il 40 % con celle a multi giunzione. Tuttavia, affinché l'energia solare diventi un'alternativa valida all'utilizzo di combustibili fossili, è necessario che il suo costo si riduca notevolmente, ma nonostante i numerosi progressi nel miglioramento dell'efficienza, il costo per kilowattora dell'energia solare è tuttora 10-20 volte maggiore di quello dell'energia ricavabile dai combustibili fossili quali carbone, gas naturale o petrolio. Recentemente ha ricevuto molta attenzione una nuova classe di celle fotovoltaiche basate su materiali nano strutturati (celle di terza generazione), poiché il loro impiego potrebbe portare ad un'enorme riduzione dei costi di produzione. Questi materiali offrono inoltre l'opportunità di controllare e dunque ottimizzare le proprie proprietà ottiche, elettriche e strutturali alla scala nanometrica al fine di aumentare l'efficienza di conversione fotovoltaica. Esistono una serie di esempi di queste celle solari innovative ed esse sono caratterizzate da meccanismi di funzionamento molto diversi tra loro. Lo scopo di questo tutorial è quello di fornire un'introduzione alle celle solari di terza generazione, concentrandosi in particolare sui principi fisici di base che regolano il loro funzionamento e ponendo l'accento, per ogni esempio presentato, sugli ultimi sviluppi in campo della ricerca.

Ever since the French scientist Edmond Becquerel discovered the photoelectric effect in 1839, researchers and engineers have been intrigued and compelled by the idea of converting light into electric power or chemical fuels. The common goal is to capture the energy that is freely available from sunlight and turn it into the valuable and strategically important asset that is electric power, or use it to generate fuels such as hydrogen. Until now, photovoltaics – the conversion of sunlight to electricity – has been dominated by solid-state junction devices, mostly made of silicon in its crystalline form. Enormous advances have been made to steadily improve the efficiencies of these devices over the past 30 years, with single-crystal silicon cells at 25% power conversion and multi-junction cells approaching 40% power conversion. Yet, in order for solar energy to become a truly viable alternative to carbon-based fuels, it must also become cost-competitive, and despite these substantial advances in efficiency and cost, solar energy is still 10-20 times more expensive per kilowatt-hour than coal, gas, or oil. Recently, a new generation of photovoltaic cells, based on nanoscale materials (third generation solar cells), has received enormous attention because of its potential to reduce dramatically the cost of solar cell energy. These new opportunities arise from major advances in the ability to control the optical, electronic, and structural properties of inorganic and organic materials at the nanometer scale. There are a number of examples of such possible future solar cells, which can have fundamentally different photon-to-electron conversion mechanisms. Aim of this tutorial is to give an overview of third generation solar cells by focusing on their basic physical concepts and highlighting for each example presented the current research trends.

CHAIRPERSON



Giancarlo
Cicero

WEDNESDAY 10TH JUNE

BUSINESS OPPORTUNITY : NANOMECHANICS & MECHATRONICS

09:30 - 10:45



CHAIRPERSON: ENG. DARIO SCAPATICCI
UNIONE INDUSTRIALE DI TORINO

09:30 **INTRODUCTION**

09:40 **SAMSUNG ELECTRONICS**

Eng. Wooseok Chin, SAMSUNG ELECTRONICS

09:50 **INTERNATIONAL ADVANCED RESEARCH CENTRE OF POWER METALLURGY AND NEW MATERIALS**

Dr. Tata Narasinga Rao, INTERNATIONAL ADVANCED RESEARCH CENTRE OF POWER METALLURGY AND NEW MATERIALS

10:10 **THE IMEGO INSTITUTE**

Dr. Manoo Eibpoosh, THE IMEGO INSTITUTE

10:20 **NANO ACTIVE**

Dr. Richard Seifert, NANO ACTIVE

10:30 **MINATEC**

Dr. Laurent Montes, MINATEC

IN COLLABORATION WITH:



CHAIRPERSON



Dario
Scapaticci

WEDNESDAY 10TH JUNE

BUSINESS OPPORTUNITY: NANOMEDICINE

09:30 - 10:45



CHAIRPERSON: DR. FABRIZIO CONICELLA
BIOINDUSTRY PARK DEL CANAVESE

09:30 INTRODUCTION

09:40 LIFECARE INNOVATIONS

Dr. Jitendra Verma, LIFECARE INNOVATIONS PVT LTD

09:50 IDEAL STAR INC.

Dr. Yasuhiko Kasama, IDEAL STAR INC.

10:00 INSTITUTE OF BIOCHEMISTRY RUSSIAN ACAD. SCI

Dr. Boris Dzantiev, INSTITUTE OF BIOCHEMISTRY RUSSIAN ACAD. SCI

10:10 HERMATOLOGICAL LOGICAL DEVICES

Dr. Igor Pivovarov, HERMATOLOGICAL LOGICAL DEVICES LTD

10:20 NANOMATERIALS TECHNOLOGY PTE LTD

Dr. Jimmy Yun, NANOMATERIALS TECHNOLOGY PTE LTD

IN COLLABORATION WITH:



CHAIRPERSON



Fabrizio
Conicella

WEDNESDAY 10TH JUNE

BUSINESS OPPORTUNITY: ENERGY

09:30 - 10:45



CHAIRPERSON: PROF. GUIDO SARACCO
POLITECNICO DI TORINO

09:30 **INTRODUCTION**

09:45 **NATIONAL INSTITUTE FOR INTERDISCIPLINARY SCIENCE AND TECHNOLOGY**

Dr. George Thomas, NATIONAL INSTITUTE FOR INTERDISCIPLINARY SCIENCE AND TECHNOLOGY

10:05 **TRANSIC AB**

Dr. Jan Tufvesson, TRANSIC AB

10:30 **RESEARCH AND TECHNOLOGICAL TRIAL CENTER "NANOTECH-DUBNA" LCC**

Dr. Maxim Wakstein, RESEARCH AND TECHNOLOGICAL TRIAL CENTER "NANOTECH-DUBNA" LCC

WEDNESDAY 10TH JUNE
PLENARY SESSION

11:15 - 12:45



CHAIRPERSON: DR. SANDRO BONOMI
ANIMA

- 11:15 **OPENING**
Ing. Domenico Piazza, Senior Partner, ITER
- 11:20 **WELCOME**
Dott. Alessandro Barberis, President, TORINO CHAMBER OF COMMERCE
- 11:25 **INTRODUCTION**
Dott. Sandro Bonomi, President, ANIMA
- 11:30 **THE EUMAT PLATFORM**
Dott. Daniele Pullini, Chair of the Nanomaterials working group of EUMAT
- 11:40 **NANOTECHNOLOGY FOR NANOMEDICINE: THE WINNING FORMULA**
Dott. Jimmy Yun, FOUNDER, NMT- NANOMATERIALS TECHNOLOGY
- 12:00 **SAFETY OF NANOPRODUCTS AND NANOPRODUCTS FOR SAFETY**
Dott. Georgios Katalagarianakis, SCIENTIFIC OFFICER, EUROPEAN COMMUNITY
- 12:20 **INSTITUTIONS' GREETINGS**
Dott. Alberto Cigada, PROFESSOR, POLITECNICO DI MILANO
Prof. Francesco Profumo, RECTOR, POLITECNICO DI TORINO
- 12:45 **CONCLUSION**

CHAIRPERSON



Sandro
Bonomi



Domenico
Piazza



Alessandro
Barberis



Daniele
Pullini



Jimmy
Yun



Alberto
Cigada



Francesco
Profumo

WEDNESDAY 10TH JUNE

TESSILE: PROGETTO PLASMA TEXT - I

14:15 - 15:45



CHAIRPERSON: PROF. ALBERTO CIGADA
POLITECNICO DI MILANO

14:15 INTRODUZIONE A CURA DEL MODERATORE

14:30 LE NANOTECNOLOGIE SOL-GEL

Dott.ssa Lorenza Draghi, POLITECNICO DI MILANO

14:50 LA NANOTECNOLOGIE PLASMA

Dott.ssa Nicoletta De Vetro, PLASMA SOLUTION

15:10 LE TECNOLOGIE ENZIMATICHE

Dott. Gianfranco Peluso, CNR NAPOLI

15:30 DISCUSSIONE E CONCLUSIONE

IN COLLABORAZIONE CON:



RegioneLombardia

CHAIRPERSON



Alberto
Cigada



Lorenza
Draghi



Nicoletta
De Vetro



Gianfranco
Peluso

WEDNESDAY 10TH JUNE
NANOMEDICINE

14:15 - 15:45



CHAIRPERSON: PROF. FABRIZIO PIRRI
POLITECNICO DI TORINO

14:15 **INTRODUCTION**

14:30 **SOLID LIPID NANOPARTICLES: DELIVERY SYSTEM FOR DRUGS AND CONTRAST AGENTS**
Ing. Paolo Gasco, NANOVECTOR

14:40 **SNOM IN NANOMEDICINE: BIONANOLAB ACTIVITIES**
Dott.ssa Barbara Troian, BIONANOLAB, APE RESEARCH

14:50 **NANOMATERIALS: FROM RESEARCH TO DIAGNOSTICS**
Dott.ssa Roberta Carbone, TETHIS

15:00 **LAB-ON-CHIP DEVICES FOR "PERSONALIZED MEDICINE"**
Prof. Paolo Gasparini, LATEMAR UNIT TELETHON - UNIVERSITY OF TRIESTE

15:10 **PHENICS PROJECT: AN EXAMPLE OF NANOTECHNOLOGY FOR EARLY DIAGNOSTIC MEDICINE**
Prof. Emiliano Descrovi, POLITECNICO DI TORINO

15:20 **ON THE RATIONAL DESIGN OF NANO-SIZED PARTICULATE SYSTEMS FOR BIOMEDICAL APPLICATIONS: THE 3S PROBLEM**
Prof. Paolo Decuzzi, UNIVERSITY OF TEXAS - HEALTH SCIENCE CENTER HOUSTON USA

15:30 **DISCUSSION AND CONCLUSION**

IN COLLABORATION WITH:



CHAIRPERSON



Fabrizio
Pirri



Paolo
Gasco



Barbara
Troian



Roberta
Carbone



Paolo
Gasparini



Emiliano
Descrovi



Paolo
Decuzzi

WEDNESDAY 10TH JUNE
TOOLS & METROLOGY

14:15 - 15:45



CHAIRPERSON: DOTT. GIAN BARTOLO PICOTTO
INRIM

- 14:15 **INTRODUCTION**
- 14:30 **NANOMETROLOGY ACTIVITY FOR THIN FILM: RECENT DEVELOPMENTS**
Prof.ssa Laura Depero, UNIVERSITÀ DI BRESCIA
- 14:45 **SUBMICRON METROLOGY IN SILICON WAFER MANUFACTURING**
Dott.ssa Gabriella Borionetti, MEMC
- 15:00 **NANOSCALE QUANTITATIVE ANALYSIS: SYNCHROTRON RADIATION APPLICATIONS**
Dott. Giovanni Di Santo, LSM UNIT - LABORATORY MICRO & NANO CARBON/ SINCROTRONE TRIESTE
- 15:15 **INDUSTRIAL CONTROL AT SUBMICRON SCALE IN OPTOELECTRONIC DEVICE MANUFACTURING**
Dott. Giancarlo Meneghini, AVAGO TECHNOLOGIES ITALY
- 15:30 **DISCUSSION AND CONCLUSION**

IN COLLABORATION WITH:



CHAIRPERSON



Gian Bartolo
Picotto



Laura
Depero



Gabriella
Borionetti



Giovanni
Di Santo



Giancarlo
Meneghini

WEDNESDAY 10TH JUNE

TESSILE - II

16:15 - 17:45



CHAIRPERSON: DOTT. FRANCO PIUNTI
ASSOCIAZIONE TESSILE E SALUTE

16:15 INTRODUZIONE A CURA DEL MODERATORE

16:30 FINISSAGGI IBRIDI ORGANICI-INORGANICI MEDIANTE PROCESSO SOL-GEL PER TESSILI AD USO TECNICO
Prof. Giuseppe Rosace, UNIVERSITÀ DEGLI STUDI DI BERGAMO

16:50 IN DEFINIZIONE
Ing. Adriano Fontana, ARIOLI

17:10 TRATTAMENTO DI TESSUTI IN LANA CON PLASMA ATMOSFERICO: CONFRONTO FRA TECNOLOGIE PLASMA JET E DIELECTRIC BARRIER DISCHARGE
Dott. Massimo Perucca, ENVIRONMENT PARK

17:30 DISCUSSIONE E CONCLUSIONE

IN COLLABORAZIONE CON:



CHAIRPERSON



Franco
Piunti



Giuseppe
Rosace



Adriano
Fontana



Massimo
Perucca

WEDNESDAY 10TH JUNE
HEALTH & SAFETY

16:15 - 17:45



CHAIRPERSON: PROF.SSA BICE FUBINI
UNIVERSITÀ DEGLI STUDI DI TORINO

16:15 **INTRODUCTION**

16:30 **OCCUPATIONAL EXPOSURE TO NANOMATERIALS: FROM HAZARD ASSESSMENT TOWARDS THE RISK MANAGEMENT**
Dott. Enrico Bergamaschi, UNIVERSITÀ DEGLI STUDI DI PARMA

16:50 **LINKING PHYSICO-CHEMICAL FEATURES OF NANOPARTICLES TO THEIR TOXIC POTENTIAL: A STRATEGY FOR THE SAFETY EVALUATION OF NEW NANOMATERIALS**
Dott.ssa Ivana Fenoglio, UNIVERSITÀ DEGLI STUDI DI TORINO

17:10 **NANOIMPACTNET - HELPING CREATE A HEALTHY AND SAFE FUTURE WITH NANOTECHNOLOGIES**
Dott. Michael Riediker, INSTITUTE FOR WORK AND HEALTH

17:30 **DISCUSSION AND CONCLUSION**

CHAIRPERSON



Bice
Fubini



Enrico
Bergamaschi



Ivana
Fenoglio



Michael
Riediker

WEDNESDAY 10TH JUNE

MICRO & NANODEVICES

16:15 - 17:45



CHAIRPERSON: PROF. MARCO FANCIULLI
LABORATORIO MATERIALI E DISPOSITIVI PER LA MICROELETTRONICA (INFM)

16:15 INTRODUCTORY REMARKS

16:25 EMERGING NON-VOLATILE MEMORY DEVICES

Dott.ssa Sabina Spiga, CNR-INFM, LN-MDM

16:40 SPINTRONICS: AN OPTION FOR FUTURE DATA STORAGE

Dott. Roberto Mantovan, CNR-INFM, LN-MDM

16:55 MICRO AND NANODEVICES FABRICATION AT INRIM

Dott. Giampiero Amato, INRIM

17:10 MICRODEVICES FOR BRAIN-CHIP INTERFACING

Dott. Stefano Vassanelli, UNIVERSITÀ DI PADOVA

17:25 SILICON MICRO MACHINING APPLIED TO CHROMATOGRAPHY AND SPECTROSCOPY INSTRUMENTATION

Dott. Paolo Scardina, VARIAN VACUUM TECHNOLOGIES

Dott. Mario Voglino, VARIAN VACUUM TECHNOLOGIES

17:40 DISCUSSION AND CONCLUSION

IN COLLABORATION WITH:



CHAIRPERSON



Marco
Fanciulli



Sabina
Spiga



Roberto
Mantovan



Giampiero
Amato



Stefano
Vassanelli

THURSDAY 11TH JUNE
FUNCTIONAL MATERIALS - I

09:15 - 10:45



CHAIRPERSON: PROF. CARLO ENRICO BOTTANI
POLITECNICO DI MILANO

CHAIRPERSON: PROF. ADRIANO ZECCHINA
UNIVERSITÀ DEGLI STUDI DI TORINO

09:15 **INTRODUCTION**

09:30 **HYBRID SOLAR CELLS BASED ON HETEROSTRUCTURED TETRAPOD-SHAPED CDSE/CDTE NANOCRYSTALS**
Prof. Giuseppe Gigli, NNL

09:45 **CAPTURE AND RELEASE OF METAL VAPOURS AND GASES FROM/TO THE GAS PHASE**
Dott. Roberto Giannantonio, SAES GETTERS

10:00 **MAKING HI- AND LOW-TECH MEET IN MATERIALS RESEARCH: HOW TRADITIONAL INDUSTRIAL SECTORS CAN EXPLOIT ADVANCED RESEARCH**
Prof. Gabriele Ricchiardi, NIS CENTRE OF EXCELLENCE - UNIVERSITÀ DI TORINO

10:15 **SILICON TECHNOLOGY FOR THE TSI ERA**
Prof. Gianfranco Cerofolini, UNIVERSITÀ DEGLI STUDI DI MILANO BICOCCA

10:30 **DISCUSSION AND CONCLUSION**

IN COLLABORATION WITH:



CHAIRPERSON



Carlo Enrico
Bottani



Adriano
Zecchina



Giuseppe
Gigli



Roberto
Giannantonio



Gabriele
Ricchiardi



Gianfranco
Cerofolini

THURSDAY 11TH JUNE
BENI CULTURALI

09:15 - 10:45



CHAIRPERSON: PROF. OSCAR CHIANTORE
UNIVERSITÀ DEGLI STUDI DI TORINO

- 09:15 **INTRODUZIONE A CURA DEL MODERATORE**
- 09:30 **THE ART OF NANOSCIENCE FOR THE CONSERVATION OF ART**
Prof. Luigi Dei, UNIVERSITÀ DI FIRENZE
- 09:45 **SINTESI E CARATTERIZZAZIONE DI MATERIALI FOTOCATALITICI A BASE DI BLOSSIDO DI TITANIO PER L'ABBATTIMENTO DI VOC E NOX RESPONSABILI DI FENOMENI DI DEGRADO DI BENI CULTURALI ESPOSTI IN AMBIENTE MUSEALE**
Dott. Marco Nicola, ADAMANTIO
- 10:00 **IN DEFINIZIONE**
Dott.ssa Annamaria Giovagnoli, CENTRO CONSERVAZIONE E RESTAURO "LA VENARIA REALE"
- 10:15 **IN DEFINIZIONE**
Dott. Alessandro Zanini, EL. EN.
- 10:30 **DISCUSSIONE E CONCLUSIONE**

IN COLLABORAZIONE CON:



Università degli Studi di Torino

CHAIRPERSON



Oscar
Chiantore



Luigi
Dei



Marco
Nicola



Annamaria
Giovagnoli



Alessandro
Zanini

THURSDAY 11TH JUNE
SENSORS & MEMS

09:15 - 10:45



CHAIRPERSON: DOTT. CARLO RICCIARDI
POLITECNICO DI TORINO

CHAIRPERSON: PROF. GUIDO FAGLIA
UNIVERSITÀ DEGLI STUDI DI BRESCIA

09:15 **INTRODUCTION**

09:25 **NANOWORLD SCANNING PROBES - STATE OF THE ART AND FUTURE DEVELOPMENTS**
Dott.ssa Laure Aeschimann, NANOWORLD AG

09:40 **SILICON AS NANOSTRUCTURED SUBSTRATE FOR DEVELOPING OPTICAL DEVICES AND PIEZOELECTRICAL MICROACTUATORS**
Dott. Alessandro Farano, RIBES RICERCHE

09:55 **PRESSURE MEASUREMENT AT HIGH TEMPERATURE: SOI AND SIC SOLID STATE SENSOR**
Dott. Edoardo Fagnani, GEFTRAN SENSORI

10:10 **NEW GENERATION MONOLITHIC INKJET PRINthead**
Dott. Fulvio Cominetti, OLIVETTI I-JET

10:25 **MULTIPHYSICS MODELING OF MEMS APPLICATIONS**
Dott. Valerio Marra, COMSOL

10:40 **DISCUSSION AND CONCLUSION**

IN COLLABORATION WITH:

 **COMSOL**

CHAIRPERSON



Carlo
Ricciardi



Guido
Faglia



Laure
Aeschimann



Alessandro
Farano



Edoardo
Fagnani



Fulvio
Cominetti



Valerio
Marra

THURSDAY 11TH JUNE
FUNCTIONAL MATERIALS - II

11:15 - 12:45



CHAIRPERSON: PROF. SALVATORE IANNOTTA
ISTITUTO DEI MATERIALI PER L'ELETTRONICA ED IL MAGNETISMO (IMEM)

11:15 **INTRODUCTION**

11:30 **NANOFABRICATION OF POLYMER FILMS: HOW TO INTEGRATE FUNCTIONALITY IN CONVENTIONAL MATERIALS**

Dott. Fabio Biscarini, SCRIBA NANOTECNOLOGIE

11:50 **CHEMICAL SENSITIVITY OF SUPRAMOLECULAR PORPHYRINS ASSEMBLIES**

Prof. Corrado Di Natale, UNIVERSITÀ DI ROMA - TOR VERGATA

12:10 **INDUSTRIAL APPLICATION OF POLYOLEFIN-BASED NANOCOMPOSITES**

Dott. Giuseppe Ferrara, BASELL POLIOLEFINE ITALIA

12:30 **DISCUSSION AND CONCLUSION**

CHAIRPERSON



Salvatore
Iannotta



Fabio
Biscarini



Corrado
Di Natale



Giuseppe
Ferrara

THURSDAY 11TH JUNE
AGRO-ALIMENTARE

11:15 - 12:45



CHAIRPERSON: PROF. FRANCESCO GEOBALDO
POLITECNICO DI TORINO

- 11:15 **INTRODUZIONE A CURA DEL MODERATORE**
- 11:30 **BIOSENSORI A CANTILEVER PER IL CONTROLLO DELLA SICUREZZA DEGLI ALIMENTI**
Dott. Carlo Ricciardi, POLITECNICO DI TORINO
- 11:50 **NANOCOMPOSITI E BIOPLASTICHE, IL FUTURO DELL'IMBALLAGGIO**
Dott. Giovanni Camino, UNIVERSITÀ DI TORINO
- 12:10 **NANOTECNOLOGIE E TRACCIABILITÀ AGROALIMENTARE: OPPORTUNITÀ E SPUNTI PROGETTUALI**
Dott. Mauro Campo, CSI PIEMONTE E C-LAB CUNEO
- 12:30 **DISCUSSIONE E CONCLUSIONE**

IN COLLABORAZIONE CON:



CHAIRPERSON



Francesco
Geobaldo



Carlo
Ricciardi



Giovanni
Camino



Mauro
Campo

THURSDAY 11TH JUNE
VACUUM & THIN FILMS

11:15 - 12:45



CHAIRPERSON: PROF. FABRIZIO GIORGIS
POLITECNICO DI TORINO

11:15 **INTRODUCTION**

11:25 **HIGH VACUUM MULTICHAMBER SYSTEMS FOR THIN FILMS DEPOSITION**
Dott. Paolo Rava, ELETTRORAVA

11:40 **PLASMA ENHANCED CVD FOR PHOTOVOLTAIC AND PHOTONIC APPLICATIONS**
Dott.ssa Caterina Summonte, CNR-IMM SEZ. BOLOGNA

11:55 **APPLICATIONS OF NANOMETER PERIODICITY SPUTTER-DEPOSITED MULTILAYERS**
Dott. Valentino Rigato, INFN-LNL LEGNARO

12:10 **PLASMA ASSISTED PROCESSES FOR SURFACE CHEMICAL FUNCTIONALIZATION**
Dott.ssa Paola Rivolo, POLITECNICO DI TORINO

12:25 **VARIAN VACUUM SOLUTIONS FOR NANOTECHNOLOGIES**
Ing. Roberto Cerruti, VARIAN VACUUM TECHNOLOGIES

12:40 **DISCUSSION AND CONCLUSION**

CHAIRPERSON



Fabrizio
Giorgis



Paolo
Rava



Caterina
Summonte



Valentino
Rigato



Paola
Rivolo

THURSDAY 11TH JUNE

PROPRIETÀ INTELLETTUALE & TRASFERIMENTO TECNOLOGICO

14:15 - 15:45



CHAIRPERSON: DOTT.SSA NICOLETTA MARCHIANDI
CAMERA DI COMMERCIO DI TORINO

14:15 **TREND ATTUALI DEI BREVETTI NANOTECH: ANALISI DI CASI DI SUCCESSO**

Dott. Mirko Bergadano, STUDIO TORTA
Dott. Francesco Fussiello, STUDIO TORTA

14:30 **IN DEFINIZIONE**

Ing. Giorgio Crovini, STUDIO BUZZI

14:45 **IL SOCIAL NETWORK PER L'INNOVAZIONE**

Dott. Filippo Margary, ENZIMA P

15:00 **I SERVIZI OPERATIVI DELL'ENTERPRISE EUROPE NETWORK A FAVORE DEL TRASFERIMENTO TECNOLOGICO**
Ing. Marco Mangiantini, UNIONCAMERE PIEMONTE

15:15 **IN DEFINIZIONE**

Prof. Bernardo Bertoldi, ESCP EAP - EUROPEAN SCHOOL OF MANAGEMENT

15:30 **DISCUSSIONE E CONCLUSIONE**

IN COLLABORAZIONE CON:

BUZZI, NOTARO
&
ANTONIELLI d'OULX

STUDIO TORTA
Dotti, Prato, Biaggio & Partners

CHAIRPERSON



Nicoletta
Marchiandi



Mirko
Bergadano



Giorgio
Crovini



Filippo
Margary



Marco
Mangiantini



Bernardo
Bertoldi

THURSDAY 11TH JUNE

ENERGY

14:15 - 15:45



CHAIRPERSON: PROF.SSA ELENA TRESSO
POLITECNICO DI TORINO

14:15 INTRODUCTION

14:30 MOLECULAR ENGINEERING OF MATERIALS FOR SOLAR ENERGY CONVERSION
Dott. Md. Khaja Nazeeruddin, ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE

14:45 INNOVATIVE MATERIALS FOR FUTURE GENERATION EXCITONIC SOLAR CELLS: A PROJECT OF THE EUROPEAN COMMUNITY (VII FP)
Dott. Chiara Bisio, UNIVERSITÀ DEL PIEMONTE ORIENTALE

15:00 INNOVATING CERAMICS INNOVATING ARCHITECTURE
Dott. Roberto Dolci, SYSTEM GROUP

15:15 AN OVERVIEW ON THE ENERGY EFFICIENCY IN THE COMPANIES
Ing. Luca Sassoli, FINSERVICE GROUP

15:30 DISCUSSION AND CONCLUSION

IN COLLABORATION WITH:



CHAIRPERSON



Elena
Tresso



Md. Khaja
Nazeeruddin



Chiara
Bisio



Roberto
Dolci



Luca
Sassoli

THURSDAY 11TH JUNE

AEROSPACE

14:15 - 15:45



CHAIRPERSON: ING. ERIKA CALVI
ALENIA AERONAUTICA

CHAIRPERSON: ING. MARCO ACTIS GRANDE
POLITECNICO DI TORINO

14:15 INTRODUCTION

14:20 **NANOMATERIALS AND NANOTECHNOLOGIES DEVELOPMENT IN ALENIA AERONAUTICA**
Ing. Augusto Albolino, ALENIA AERONAUTICA

14:35 **THE OPPORTUNITIES COMING FROM A NEW GENERATION OF MATERIALS APPLIED TO AEROSPACE SYSTEMS**
Ing. Franco Fossati, THALES ALENIA SPACE

14:50 **NANOVALVES FOR TERAHERTZ APPLICATIONS: A MULTISCALE APPROACH**
Ing. Carlo Falessi, SELEX SISTEMI INTEGRATI

15:05 **CONTROLLED GROWTH OF CARBON NANOSTRUCTURES FOR STRUCTURAL AND
FUNCTIONAL APPLICATIONS**
Dott.ssa Rossella Giorgi, ENEA

15:20 **NANOSTRUCTURED MATERIALS AS PROMISING CANDIDATES FOR AEROSPACE APPLICATIONS**
Dott.ssa Mariangela Lombardi, POLITECNICO DI TORINO

15:35 DISCUSSION AND CONCLUSION

CHAIRPERSON



Erika
Calvi



Marco Actis
Grande



Augusto
Albolino



Franco
Fossati



Carlo
Falessi



Rossella
Giorgi



Mariangela
Lombardi

THURSDAY 11TH JUNE
ARCHITETTURA & DESIGN

16:15 - 17:45



CHAIRPERSON: PROF. ALBERTO CIGADA
POLITECNICO DI MILANO

- 16:15 LE NANOTECNOLOGIE NELL'ARCHITETTURA E NEL DESIGN
- 16:30 NUOVE SUPERFICI PER IL DESIGN
Dott. Andrea Lorenzi, NANOSURFACES
- 16:40 UTILIZZO DI NANOTECNOLOGIE NEGLI ELETTRODOMESTICI
Dott. Paolo Faraldi, INDESIT COMPANY
- 16:50 ECOTICM, FACCIA VENTILATE IN TITANIO FOTOCATALITICO
Sig. Paolo Guidetti, ALU BUILD
Dott. Pietro Marchisio, NANOSURFACES
- 17:10 LA FUNZIONALIZZAZIONE DELLE SUPERFICI DI TUNNEL STRADALI
Dott. Giancarlo Martina, STEIKOS
- 17:30 DISCUSSIONE E CONCLUSIONE

IN COLLABORAZIONE CON:



CHAIRPERSON



Alberto
Cigada



Andrea
Lorenzi



Paolo
Faraldi



Paolo
Guidetti



Pietro
Marchisio



Giancarlo
Martina

THURSDAY 11TH JUNE

AMBIENTE

16:15 - 17:45



CHAIRPERSON: PROF. SALVATORE COLUCCIA
UNIVERSITÀ DEGLI STUDI DI TORINO

- 16:15 **LE NANOTECNOLOGIE PER L'AMBIENTE**
Prof. Ezio Pelizzetti, MAGNIFICO RETTORE DELL'UNIVERSITÀ DI TORINO
- 16:40 **NANOMATERIALI FUNZIONALI PER LA DECONTAMINAZIONE AMBIENTALE**
Prof. Carlo Alberto Bignozzi, UNIVERSITÀ DI FERRARA
- 17:05 **ECO-DETERGENTI NANOTECNOLOGICI PER LA DECONTAMINAZIONE DELLE SUPERFICI**
Dott. Umberto Bino, NANO COATING SYSTEM
Dott. Renzo Leardini, NEW CHEMICAL TECHNOLOGY
- 17:30 **APPLICAZIONI EDILI DI NANOMATERIALI ANTI-SMOG E SELF-CLEANING**
Geom. Alessandro Torretta, AT MARMO SERVICE

IN COLLABORAZIONE CON:



Università degli Studi di Torino

CHAIRPERSON



Salvatore
Coluccia



Ezio
Pelizzetti



Carlo Alberto
Bignozzi



Alessandro
Torretta

THURSDAY 11TH JUNE
AUTOMOTIVE

16:15 - 17:45



CHAIRPERSON: ING. GIANFRANCO INNOCENTI
CENTRO RICERCHE FIAT

CHAIRPERSON: PROF. LEONARDO MARCHESE
UNIVERSITA' DEGLI STUDI DEL PIEMONTE ORIENTALE

16:15 **INTRODUCTION**

16:25 **NANOTECHNOLOGIES ENABLING CLEAN AND SUSTAINABLE MOBILITY**
Ing. Vito Lambertini, CENTRO RICERCHE FIAT

16:45 **AUTOMOTIVE APPLICATIONS OF THERMOPLASTIC NANOCOMPOSITES:
STATE-OF-THE-ART AND PERSPECTIVES**
Ing. Eligio Martini, GRUPPO MAIP

17:05 **APPLIED NANOTECHNOLOGIES FOR THE REALIZATION OF PROCESSES ON TEXTILE IN THE AUTOMOTIVE**
Dott. Solitario Nesti, TECNOTESSILE

17:25 **ADVANCED SURFACE NANOTECNOLOGICAL SOLUTIONS FOR COMPETITIVE ENGINE VALVES**
Ing. Stefano Gazzola, ZANZI SPA

IN COLLABORATION WITH:



CHAIRPERSON



Gianfranco
Innocenti



Leonardo
Marchese



Vito
Lambertini



Eligio
Martini



Solitario
Nesti

WEDNESDAY 10TH JUNE

SATELLITE EVENT
NANOTECHNOLOGY & EDUCATION IN THE FRAMEWORK
OF “LA STORIA NEL FUTURO”
ORGANIZED BY POLITECNICO OF TURIN

14:30 - 17:45



14:30 **OPENING AND WELCOME**

Prof. Francesco Profumo, MAGNIFICO RETTORE DEL POLITECNICO DI TORINO

14:45 **ROUND TABLE**

Prof. Paolo Camurati, FACOLTÀ DI INGEGNERIA DELL'INFORMAZIONE, POLITECNICO DI TORINO
Prof. Maher Kayal, ECOLE POLYTECHNIQUE DE LAUSANNE
Prof. Giorgio Margaritondo, ECOLE POLYTECHNIQUE DE LAUSANNE
Prof. Laurent Montes, INSTITUT NATIONAL POLYTECHNIQUE DE GRENOBLE
Prof. Jean Claude Sabonnadière, INSTITUT NATIONAL POLYTECHNIQUE DE GRENOBLE

15:45 **MICRO E NANOTECNOLOGIE: QUALI PROSPETTIVE, QUALI PROMESSE**

Dott. Mariano Anderle, FONDAZIONE BRUNO KESSLER

16:30 **FORMAZIONE NANOTECH AL POLITECNICO: TESTIMONIANZE**

Ing. S. Bertolotto
Ing. S. Fissolo

IN COLLABORATION WITH:



CHAIRPERSON



Francesco
Profumo

Paolo
Camurati

Maher
Kayal

Giorgio
Margaritondo

Laurent
Montes

Jean Claude
Sabonnadière

Mariano
Anderle

THURSDAY 11TH JUNE

SATELLITE EVENT NANOTECNOLOGI: DOV'È LA PROSSIMA GENERAZIONE?

09:30 - 11:00



09:30 TAVOLA ROTONDA

Prof. Paolo Allia, POLITECNICO DI TORINO

Prof. Livio Battezzati, UNIVERSITÀ DEGLI STUDI DI TORINO

Prof. Michele Catti, PROGETTO 'LAUREE SCIENTIFICHE', UNIVERSITÀ DEGLI STUDI DI MILANO BICOCCA

Prof. Edoardo Garrone, POLITECNICO DI TORINO

Dott. Daniele Pullini, CENTRO RICERCHE FIAT

Prof.ssa Nice Terzi, UNIVERSITÀ DEGLI STUDI MILANO BICOCCA

IN COLLABORAZIONE CON:



CHAIRPERSON



Paolo
Allia



Livio
Battezzati



Daniele
Pullini



Nice
Terzi

THURSDAY 11TH JUNE

SATELLITE EVENT

ANNUAL MEETING OF LATEMAR - I

11:15 - 12:00



11:15 **CONSIGLIO SCIENTIFICO LATEMAR**

11:25 **LOC VETRO/SILICIO STATO DELL'ARTE LATEMAR**

Dott. C. Panciatichi, OLIVETTI - I - JET

Dott.ssa Cristina Potrich, LATEMAR - FBK TRENTO

Dott. Diego Vozzi, LATEMAR - TELETHON - UNIVERSITÀ DI TRIESTE

11:40 **REAL TIME PCR**

Dott. Ivan Ferrante, POLITECNICO DI TORINO

IN COLLABORAZIONE CON:



CHAIRPERSON



Cristina
Potrich



Ivan
Ferrante

THURSDAY 11TH JUNE

SATELLITE EVENT

ANNUAL MEETING OF LATEMAR - II

13:30 - 17:30



- 13:30 **LOC POLIMERICI - STATO DELL'ARTE LATEMAR**
Dott. Matteo Cocuzza, INFM (C/O POLITECNICO DI TORINO)
- 14:00 **SENSING A CANTILEVER**
Dott. Carlo Ricciardi, POLITECNICO DI TORINO
- 14:20 **TECNOLOGIA ECL**
Prof. Luca Prodi, LATEMAR - UNIVERSITÀ DI BOLOGNA
- 14:50 **BIOSENSING OTTICO E NP**
Prof. Fabrizio Giorgis, POLITECNICO DI TORINO
Prof.ssa Nelsi Zaccheroni, LATEMAR - UNIVERSITÀ DI BOLOGNA
- 15:20 **BIOCHIP A BASE DI CARBONIO**
Dott. Danilo Demarchi, POLITECNICO DI TORINO
Dott.ssa Cecilia Pederzoli, LATEMAR - FBK TRENTO
- 15:40 **BREVETTI LATEMAR**
Dott. Matteo Cocuzza, INFM (C/O POLITECNICO DI TORINO)
- 16:00 **CONCLUSIONI E DISCUSSIONE SULLE PROSPETTIVE FUTURE**

IN COLLABORAZIONE CON:



CHAIRPERSON



Matteo
Cocuzza



Carlo
Ricciardi



Luca
Prodi



Fabrizio
Giorgis



Nelsi
Zaccheroni



Danilo
Demarchi



Cecilia
Pederzoli

THURSDAY 11TH JUNE

PARTNERING 1TO1

Nanoforum giunge quest'anno alla sua quinta edizione confermandosi come punto d'incontro d'eccellenza per promuovere le nuove possibilità offerte dalle nanotecnologie e favorire i processi di trasferimento tecnologico dal mondo della ricerca a quello imprenditoriale. Un'importante occasione per conoscere lo stato dell'arte a livello mondiale e stabilire contatti con ricercatori italiani e stranieri.

La rete europea **Enterprise Europe Network**, di cui la Camera di commercio di Torino fa parte, organizza in collaborazione con Unioncamere Piemonte, un evento di brokeraggio tecnologico destinato ad aziende, università o centri di ricerca interessati a collaborazioni tecnologiche e ad impostare congiuntamente attività di ricerca o di cooperazione tecnologica nei seguenti settori:

- nano materiali (tessili, architettura e Design)
- nanomedicina
- nanotecnologie e agro-food
- nanotecnologie e energia
- nanotecnologie e metrologia
- nano meccanica e meccatronica
- applicazioni nanotech in ambito automotive e aerospaziale
- nanotecnologie applicate ai beni culturali

La partecipazione alla giornata è gratuita previa iscrizione e compilazione di un profilo tecnologico.

Conclusa la fase di registrazione sarà creato un catalogo on-line, costantemente aggiornato, che permetterà agli iscritti di selezionare i profili di maggior interesse e di prenotare gli incontri bilaterali, attraverso il sito internet:
<http://www.enterprise-europe-network.ec.europa.eu/public/bemt/home.cfm?EventID=1986>

Successivamente sarà possibile richiedere appuntamenti personalizzati (della durata di mezz'ora ciascuno) che potranno essere accettati o rifiutati dalla controparte.

Scadenze per l'iscrizione all'evento:

- Registrazione e compilazione dei profili: 20/05/2009
- Richiesta e conferma appuntamenti: 22/05/2009
- Invio dell'agenda appuntamenti personalizzata: una settimana prima dell'evento

Per ulteriori informazioni è possibile contattare l'ufficio ai riferimenti indicati in calce.

Settore Innovazione Tecnologica

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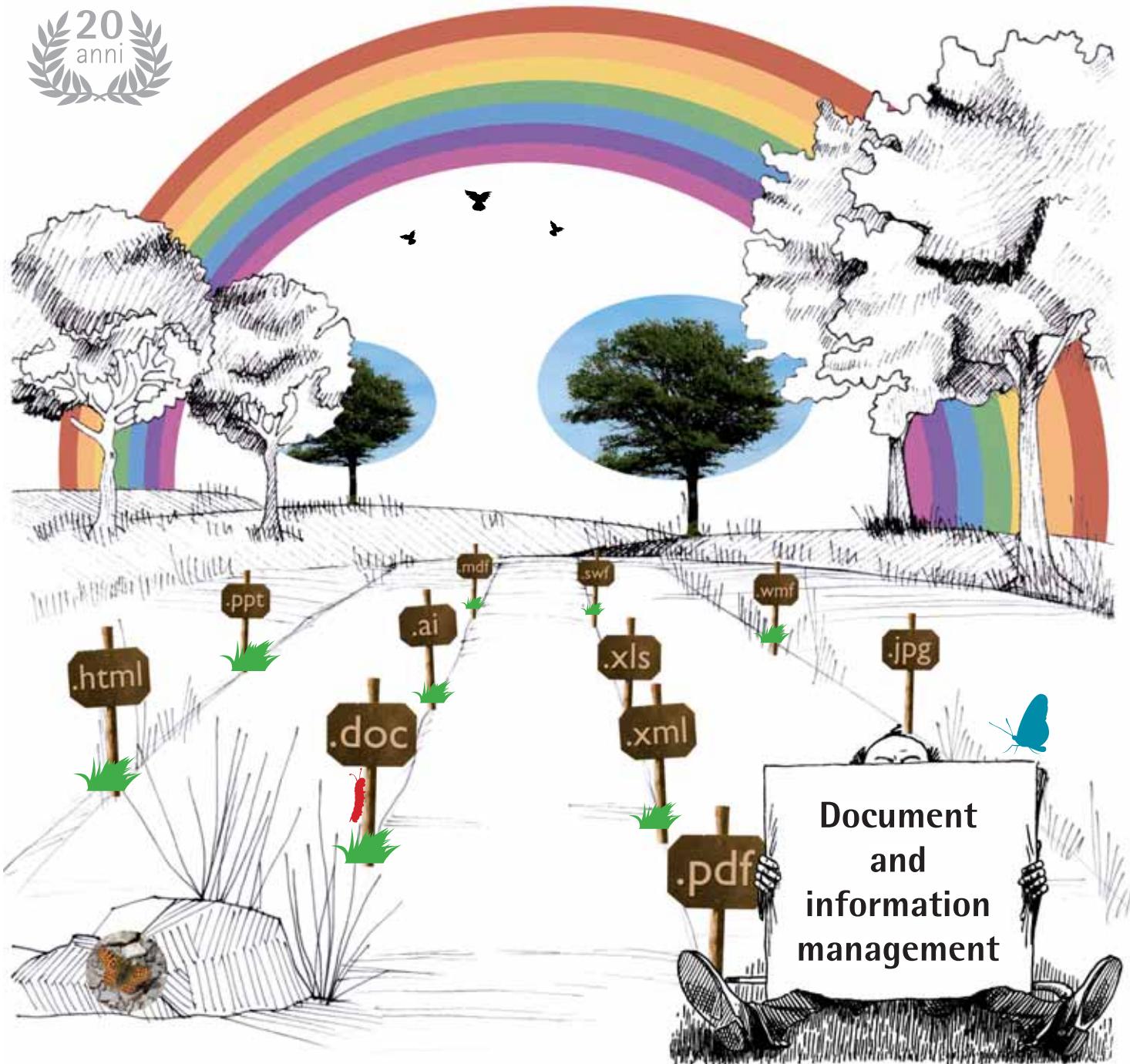
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