

HUMANE PROFESSIONAL DEVELOPMENT SERIES

INTERNATIONAL STAFF TRAINING: TECHNOLOGY TRANSFER

UNIVERSITY OF BOLOGNA 9 – 13 NOVEMBER 2015

COURSE TOPICS AND OBJECTIVES

The main objective of the training course on Technology Transfer is to improve the technical capacity of participants in the domain of research and technology transfer, providing examples, case studies and practical tools to be adapted and used within their professional contexts. Lectures will put in context the complete strategy, the processes and the outputs of the University of Bologna Research Division's relationships with industries and start-ups. In general, participants will have the opportunity to discuss case studies and make comparison of different geographical contexts and procedures.

Thanks to National and International experts who will be among the speakers, the course will examine in-depth all the research processes – research activities, start – up companies, technology transfer - and it will offer important management tools for the everyday working activities.

TARGET GROUP

The course is addressed to junior staff, in particular to research managers, with a minimum of 5 years of professional experience in an Academic Institution in the domain of research and technology transfer.

The course is addressed in particular to officers able to exploit the

capacities and tools gained and to impact at institutional level. English proficiency is required to participate.

LEARNING OUTCOMES

At the end of the training participants will be able to:

- Focus on strategies, goals and expected results dealing with industrial relations at the University
- Understand technical process for developing patents and research products
- Benchmark administrative and management procedures
- Develop abilities and skills to develop and customise a “tool box” for these procedures

METHODOLOGY

The programme will be a mix of face to face lectures, interactive sections, case studies and role play. The working language will be English. The number of participants is limited to 18, to facilitate the learning process and the interactive sessions.

Speakers and lecturers are from the University of Bologna, the Polytechnic University of Milan, NETVAL (Italian Association for the Exploitation of University Research), ASTP PROTON (Pan – European Professional Association for University-Industry Knowledge Transfer) and ALMA CUBE (University of Bologna and Unindustria Incubator).

Attendants will be selected from many countries therefore the classroom will be an international mix of participants.

APPLICATION PROCEDURES

The number of participants is strictly limited to 18. To participate you are kindly requested to fill in the form available at the HUMANE web site www.humane.eu.

Applications and CVs will be evaluated by a steering committee.

Registration deadline: 31st July 2015

LOCATION AND TIMING

The Module will be delivered at the University of Bologna, from Monday to Friday from 10.00 am to 1.00 pm and from 3.00 to 6.00 pm. Participants, without exception, must be present for the complete programme.

TRAINING COURSE VENUE

Palazzina della Viola, Via Filippo Re 2, Bologna, Italy
The Palazzina della Viola was built at the end of the 15th century for Giovanni II Bentivoglio, the last of the noble Bentivoglio family to govern Bologna. It was built to be a place of beauty, and its interiors were decorated with some wonderful frescoes during the 16th century. The façade, with its double open gallery, is particularly attractive.

Palazzina della Viola is now the venue of the International Relations Division of the University of Bologna.



SEMINAR FEE

The seminar fee is €1,500 for participants who are members of HUMANE. If your institution is not a member, the fee is €2,000. The fee includes: welcome cocktail, coffee breaks, lunches, social programme and the social dinner. The fee does not include accommodation or travel.

Once your participation has been accepted an invoice will be issued with full payment details.

GENERAL SECRETARIAT

To be filled in by HUMANE Secretariat

Further information about registration and payment will be available soon on:

Insert the link to the web site

LOCAL CONTACT

Further information about the programme and the venue will be available soon on:

<http://www.unibo.it/en/homepage>

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PROGRAMME SUMMARY

DAY 1 – MONDAY, 9th November

10.00 am

Official greetings

Welcome and Introduction

Giuseppe Colpani, General Director of the University of Bologna

Giuseppe Conti, Head of Research and Technology Transfer, Scientific Coordinator of the staff training event

Ice-breaking session and networking

1.00 – 3.00 pm Lunch Break

3.00 pm

Technology Transfer (TT) Strategies & Intellectual Property (IP) Management

Riccardo Pietrabissa, Full Professor of Industrial Bioengineering. Currently working for the Structural Engineering Department, he teaches "Endoprosthesis Design" and "Patent and Intellectual Property". Milan Polytechnic

DAY 2 – TUESDAY, 10th November

10.00 am

Technology Transfer Strategies & Spin-Off Creation

Maurizio Sobrero, Full Professor of Technology and Innovation Management, School of Engineering, University of Bologna

Federico Munari, Associate Professor, Department of Management, University of Bologna

1.00 – 3.00 pm Lunch Break

3.00 pm

Technology & Business Development (at "Glocal" level)

Enrico Sangiorgi, Full Professor of Department of Electrical, Electronic and Information Engineering (DEI) School of Engineering, University of Bologna

5.30 pm SOCIAL PROGRAMME

**Visit to the Museum of the History of Bologna
Bologna "Food Tour experience"**

DAY 3 – WEDNESDAY, 11th November

10.00 am

Intellectual Property Protection and Exploitation: Business Models, Procedures and Tools

Knowledge Transfer Office Expert UNIBO

NETVAL expert (www.netval.it)

ASTP PROTON expert (<http://www.astp-proton.eu>)

1.00 – 3.00 pm Lunch Break

3.00 pm

Incubation and Spin-Off Creation

Knowledge Transfer Office Expert UNIBO

ALMA CUBE expert (www.almacube.com)

NETVAL expert (www.netval.it)

ASTP PROTON expert (<http://www.astp-proton.eu>)

Wrap Up and introduction to working group session

DAY 4 – THURSDAY, 12th November

10.00 am

Case studies and tool box: working group session

Chairmen: NETVAL and ASTP PROTON expert

Themes: Patents and Spin-offs

- Case studies presentation
- Work in subgroups/role playing

1.00 – 3.00 pm Lunch Break

3.00 pm

Case studies and tool box: working group session

- Working group presentations
- Discussion

8.30 pm SOCIAL DINNER

DAY 5 – FRIDAY, 13th November

10.00 am

Wrap up and evaluation: what's in my tool case?

Final discussion on the tools developed and evaluation of the Programme

**1.00 pm End of the Course
Farewell Lunch**



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

HUMANE PROFESSIONAL DEVELOPMENT SERIES INTERNATIONAL STAFF TRAINING: TECHNOLOGY TRANSFER

THE ORGANIZING INSTITUTION: A SHORT PRESENTATION OF THE UNIVERSITY OF BOLOGNA

Founded in 1088, the University of Bologna has always been student-centred whilst attracting prominent figures from science and the arts. Today it is a leader in the European Higher Education Area and famous for its beauty and integration with the city. Its teaching catalogue is diversified and tailored to the needs of present-day society: over 200 degree programmes among its 33 Departments, 11 Schools and over 81,000 students. A further 5000 are candidates for its PhDs and 3rd cycle programmes. The calibre of its graduates, its internationally renowned teachers and its quality research give it a competitive edge, especially in the job market. Bologna is the best Italian university for attraction of FP7 funds and the most internationalized among Italian universities. Bologna has always favoured a multi-disciplinary, cross-cultural approach; it invests in international, multicultural training, research and services. It has formed knowledge alliances with industry and public/private organisations, and is a hub of international networks.

EDUCATION AT THE UNIVERSITY OF BOLOGNA

The course catalogue offers a wide range of diversified programmes, including first-cycle degrees (92 3-year bachelor programmes), second-cycle degrees (103 2-year masters programmes), single cycle degrees (12 5 or 6-year programmes), post-graduate and specialisation programmes, aiming to ensure the personal and future professional growth of its students.

Of its 52 international and joint-degree programmes, 27 are taught in English. Besides the five campuses (Bologna, Cesena, Forlì, Ravenna, Rimini), there is an overseas branch (Buenos Aires) coordinating research, post-graduate training and academic liaison with Latin America. Beyond its close European links, Bologna enjoys multiple international connections with North America, Africa, Asia and Australia.

A wide range of services to support and facilitate student study paths are available: from initial to ongoing guidance and advice, from the right to education – enabled through financial support to deserving and low-income students – to recreational and sports activities, foreign language learning and facilitations for international exchanges and studies abroad, to the tutoring and study support network and assistance in entering the job market.

Every year over 15,500 students graduate at Bologna. Based on the data produced by Alma Laurea, the statistics tell us that almost 50% of all our graduates (first, second and single cycle) are in paid employment within one year after graduation, and after three years this figure reaches 70%. The statistics also tell us that 84% of our graduates would choose to attend the University of Bologna again.

RESEARCH AND INNOVATION AT THE UNIVERSITY OF BOLOGNA

Over 6,000 researchers work in research and innovation at the University of Bologna, on permanent (teaching and research staff) and temporary contracts (PhD students, research fellows, etc.).

Research and innovation activities are performed in the Departments and Inter-Departmental Centres, covering a variety of subjects and working across the University campuses (Bologna, Ravenna, Forlì, Cesena, Rimini) using high level laboratories and equipment.

Through its research activities, the University aims primarily to produce new knowledge and innovations contributing to their transfer and enhancement to the benefit of economic, social and cultural development not only nationally but at European and international level too.

In this context a range of opportunities are available to the industrial world to work with the University, as part of its research and development activities.

The University of Bologna was granted 91 million EUR from the 7th European Framework Programme and other EU funded Programmes (from 2007 to September 2013).

Today's university plays a vital role in promoting innovation and entrepreneurship. Innovation turns the University's discoveries and ideas into new products and services that enrich our lives and revitalize our economies. Entrepreneurship extends innovations into exciting new start-up ventures that, along with innovations licensed to existing businesses, create new jobs and opportunities for growth.

Technology Transfer is a key component in the efforts of our University to foster innovation and entrepreneurship.

The University of Bologna is strongly committed to collaboration with businesses, both within collaborative research projects and sponsored research projects. Between 2007-2013 the University collaborated with over 1500 large as well as small and medium enterprises within transnational cooperation projects. The annual income from sponsored research contracts amounts to over 20M€. In the last two years the University has also been developing broad collaborations with large and multinational corporations by signing 9 framework collaboration agreements.

THE TECHNOLOGY TRANSFER OFFICE (KTO) AT THE UNIVERSITY OF BOLOGNA

The University of Bologna Knowledge Transfer Office (KTO) has been active in supporting technology transfer activities over the past ten years. It is currently managing a portfolio of over 200 patents, about 50 license agreements mainly on patents and new plant varieties and about 15 spin-off companies in collaboration with AlmaCube, the University Incubator.

The University of Bologna is also strongly involved in transnational networks promoting technology transfer and university-enterprise collaborations, such as the Italian Association for the Exploitation of University Research (NETVAL) where Giuseppe Conti, KTO Director, plays the role of Vice-President.

JOB PLACEMENT AT THE UNIVERSITY OF BOLOGNA

The University of Bologna Job Placement Service has been created with the aim to support the transition of graduates students into the labour market. The service has been active in the creation and maintenance of the network involving private enterprises, big companies, non-profit organisations and graduates. The Job Placement web portal has been visited in the last year by 74.000 visitors (about 30.000 unique visitors) and has published around 600 job offers from enterprises. Around 200 enterprises have participated in the job fairs and careers day organised in 2014 by the service, attended by 11.945 students. As a results, 650 job interviews have been realised in the same period and 5.243 CVs of young graduates have been downloaded from the Job Placement web portal.

LECTURERS, FACILITATORS AND SPEAKERS OF THE TRAINING COURSE

Maurizio Sobrero Full Professor of Technology and Innovation Management, School of Engineering, University of Bologna, Italy. Chairman of the Ph.D. Program in Management, the Department of Management, the Council of the University Department's Head and the University Research Committee.

Maurizio has also been a member of the University Senate from 2009 to 2012, as well as a member of the University's Executive Committee. Since 2009, he has served as a member on the Managing Board of the Italian Association of University Technology Transfer. He created and managed the Business Plan competition at the University of Bologna, launched in 2001 as the first of its kind in the country and now present in all major Italian universities. He participated in the launch of the university's incubator, Almacube, serving on its board from 2001 to 2004. In 2001, he also took a leading role in the creation of its Business School, Alma Graduate School, now part of a growing international network involving partners in Brazil, China, Russia and the U.S.

In 2005, he was invited to contribute to the United Nations World Investment Report and has served as an expert in these matters in several Committees of different public, private and government institutions.

He has participated in numerous government committees in Italy on Innovation Policies, such as the expert group for the White Book prepared by the Ministry of Industry and Trade in 2000. He also played a large part on the Expert Committee of the Region Emilia Romagna responsible for the development and implementation of innovation policies for the Region's government between 2003 and 2009.

Since 2007, Maurizio has served as a non-independent director and chair of the Audit Committee for Zignago Vetro SpA, listed on Milan Stock Exchange. Between 2010 and 2012, he also served on the Regional Board of Unicredit SpA. In 2012, he was named National Expert on Social Science and Humanities by the Italian Ministry of University and Research for the EU 7th Framework programme and for the preparation of the forthcoming Horizon 2020 program. He is the author of over 20 peer reviewed international articles and 5 books in the Economics and Management of Innovation, with a specific focus on inter-organizational collaborations, University-Industry relationships, corporate governance and R&D investments.

He holds a bachelor's of science degree in economics and management from the University of Bologna and a Ph.D. in management of technology and innovation from the Alfred P. Sloan School of Management at the Massachusetts Institute of Technology.

Maurizio is interested in engineering management, production and operations management as well as technology and innovation management. He has taught classes on subjects ranging from economics and management of innovation, theory of the firm, and management of technological innovation to corporate strategy and research methods.

Enrico Sangiorgi Full Professor and Director of the Department of Electrical, Electronic, and Information Engineering «Guglielmo Marconi» - University of Bologna, Italy. He is currently in charge of the nanomicro-electronics group at the Campus of Cesena.

From 2005 to 2011 he has been the Director of Consorzio Nazionale Interuniversitario per la Nanoelettronica (IU.NET – Italian Universities Nanoelectronic Team), a Legal Consortium grouping nine University Groups active in the field of Nanoelectronics. In 2005 he was appointed member of the CATRENE Scientific Committee. Since 2006 he has been the Vice Chairman of the Scientific Community Council (SCC) of ENIAC (the European Nanoelectronics Initiative Advisory Council). In 2007 he was appointed member of the Steering Board of AENEAS, the private section of the ENIAC European Technology Platform. In 2008 he was appointed CEO of Rinnova srl., a new company founded by the University of Bologna aiming to bring research and

innovation to SMEs. Since 2014 he has been the Director of the SINANO Institute, International Organization grouping 23 European Institutions active in the nanoelectronics field.

From 1994 to 2009 Enrico was Editor of IEEE Electron Device Letters. He has been the Guest Editor of several Special Issues on major scientific journals such as IEEE Transactions on Electron Devices, Solid State Electronics, etc. He has been a member of the Technical Committees of several International Conferences on Electron Devices: IEDM ('91-96; '04-'06), ESSDERC ('99-present), INFOS ('95-03), ULIS ('00-'08), etc. Since 2011 he has been a member of the Steering Board of the IEEE Journal of Photo-Voltaics.

Enrico Sangiorgi is a Fellow of the IEEE, Distinguished Lecturer of the Electron Device Society, and was been Chairman of the Electron Device Society TCAD Technical Committee from 2004 to 2011 and member of the Clelio Brunetti Award Committee and Education Award Committee of the EDS. In 2011 he was elected member of the EDS AdCom. Since 2013 he has been a member of the EDS Fellows Evaluation Committee. He has been involved in several European Projects of the 5, 6, and 7 FP with Management Responsibilities and he has acted as Project Reviewer for the European Commission.

The research interests of Enrico Sangiorgi, developed in cooperation with research centres and companies such as Bell Labs., Philips, Infineon Tech., ST Microelectronics, IMEC, and CEA-LETI, include the physics, characterization, modelling, and fabrication of silicon solid-state devices and integrated circuits. In particular he has been working on several aspects of device scaling, its technological, physical, and functional limits, as well as device reliability for silicon CMOS and bipolar transistors. In order to tackle and eventually overcome the hurdles of device scaling, down to the ultimate physical and technological limits, he has devised and developed several original concepts and methods in the characterization and modelling of nanoscale silicon devices. Recently his interests have included the physics and modelling of Photovoltaic devices where he has worked on several aspects of device optimization. Enrico Sangiorgi has co-authored 34 papers presented at the International Electron Device Meeting (IEDM) Conference, and overall published more than 250 papers on major journals and conference proceedings.

Federico Munari Full Professor of Technology and Innovation Management at the Department of Management of the University of Bologna. He has been the Director of the PhD Programme in Business Administration of the University of Bologna, and the Director of the Master in Management of Intellectual Property Rights of the University of Bologna. He holds a Ph.D. in Management from the University of Bologna, and has been visiting scholar at the Sloan School of Management of the Massachusetts Institute of Technology and visiting researcher at the Ecole des Mines de Paris and at Cass Business School of London. His research interests are in the fields of strategic management of intellectual property rights, valuation of patents and IPRs, venture capital and entrepreneurial finance. Federico published several books and articles in international scientific journals, such as Research Policy, Journal of Business Venturing, R&D Management, Journal of Corporate Finance, Industry and Innovation, or Technological Forecasting and Social Change. He is the Coordinator, for the University of Bologna, of the Horizon 2020 project Progress TT (Public Research Organisation GRowing Europe through best practice SolutionS for Technology Transfer). The project seeks to transfer the expertise of Europe's leading Public Research Organisations (PROs) to those smaller PROs with the greatest potential to grow – gathering best practice to formulate Europe's most definitive technology transfer (TT) tools, methods and insights.

Riccardo Pietrabissa Full Professor of Industrial Bioengineering at Milan Polytechnic, “Giulio Natta” Department of Chemistry. Currently, he teaches "Endoprosthesis Design" and "Patent and Intellectual Property".

He has devoted his research activities to experimental and computational biomechanics in the cardiovascular, orthopaedic and tissue engineering fields, especially concerning prostheses, biomechanical models for artificial-natural functional interfaces and numerical simulation of biological structures. He is co-author of about 200 publications, about 70 in peer reviewed journals.

In 2000 he founded the Laboratory of Biological Structures Mechanics at Milan Polytechnic (LaBS).

In 2001 he established Milan Polytechnic’s Patent Service and the Technology Transfer Office. In 2002 he was among the founders of the Italian Network for Technology Transfer (Netval).

Roles and Responsibilities:

1. In Managing Scientific Bodies

- Member of the Executive Council of IMT Istituto di Alti Studi, Lucca (2003-2005)
- Rector’s Delegate for technology transfer at Milan Polytechnic (2002-2005)
- Vice Rector for Lecco Campus of Milan Polytechnic (2005-2010)
- Member of the Evaluation Board of Area Science Park, Trieste (2006-2007)
- Member of the Strategic Committee of the General Direction of Scientific Research of the Ministry of Education, University and Research (MIUR) (2009)
- MIUR delegate in the Technical Scientific Committee of INAIL (2009-...)
- Member of the General Scientific Council of National Research Council, CNR (2009-2010, 2012-...)
- Director of Department ICT of CNR (National Research Council) (2011-2012)
- Director of Production Systems Department of CNR (2011-2012)
- Member of the Scientific Committee of the Consorzio di Bioingegneria e Informatica Medica, Pavia (2011-...)
- President of the National Group of Bioengineering (2011-...)
- Member of the Evaluation Board of the University of Brescia (2012-2013)
- Member of the Scientific Committee of the CETMA Consortium, Brindisi (2012-present)
- President of the Technical and Scientific Committee of Area Science Park, Trieste (2013-present)
- Director of Thematic Section “Health and Nutrition” of the National Interuniversity Consortium of Materials Science and Technology (INSTM) (2013-present)
- Member of the Evaluation Board of the University of Milan-Bicocca (2013-present)
- Associated Researcher of the Institute of Molecular Bioimaging and Physiology (IBFM) of CNR (2013-present)
- MIUR delegate in the Board of Directors of the National Biostructures and Biosystems Institute (INBB) (2014-present)
- Coordinator of the Interuniversity Committee for Exploitation of Research (UniBS, UniBG, UniPV, UniBicocca) (2014-present)
- Rector’s Delegate for Innovation and Technology Transfer at the University of Brescia (2015-present)

2. In Technology Transfer activities

- President of Netval (2007-2013)
- Member of the Executive Committee of Les Italia (2007-2010)
- Member of the Executive Committee of the Italian Group of AIPPI (2011-2013)
- Member of the Scientific Board of TT Venture (2011-...)
- Member of the Steering Committee of CSMT, Brescia (2011-2013)

- Scientific Director of CSMT, Brescia (2013-...)

3. Other Information

- Scientific Advisor of The European House-Ambrosetti on innovation (2010-present)
- Member of the Board of Directors of: Italcert Srl (2004-2012), Quantica Sgr (2008-2009), Genport Srl (2009-...), Consorzio Milano Ricerche (2011-present)
- Winner of the Bridge Award 2009, awarded to an individual who has done the most to promote policies for entrepreneurship in university or public research institutions.