

PERSONAL INFORMATION

Giuseppe Francesco Indelli



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-  <http://www.ccr.unict.it/superlab/indelli.html>

Sex Male | Date of birth 29/01/1969 | Nationality Italy

JOB POSITION

Senior Research Technician at Consorzio Catania Ricerche
System manager, Information Technology support and Webmaster

WORK EXPERIENCE

From 4th January 1993 onwards

Senior Research Technician

Consorzio Catania Ricerche

Via Cappuccini 2 - 95124 Catania - Italy

- Senior Research Technician of Laboratory of Surfaces and Interfaces (Superlab)
- System Manager and Senior Information Technology support of Consorzio Catania Ricerche
- Webmaster of institutional website of Consorzio Catania Ricerche (<http://www.ccr.unict.it>)
- Webmaster of Bridg€conomies - Enterprise Europe Network website (<http://www.eencatania.eu>)
- Webmaster of MEDIA Innovation Relay Centre website (<http://www.mediainnovation.it>) (1995-2008).

Business or sector Consorzio Catania Ricerche is a non-profit Institution, born in 1987 among Public Bodies such as CNR (National Research Council), IRI (Italian Industrial State Holding), University of Catania, Catania Chamber of Commerce and local industries (SGS Microelectronics now STMicroelectronics). CCR was created to be an effective link among academic research, CNR and industrial research. The main aims are know-how transfer, technological innovation spreading, applied research, advanced training, services for companies and territorial development.

From 15/03/1992 to 31/12/1992

Research Technician

Consorzio Catania Ricerche

Via A. di Sanguiliano, 262 - 95124 Catania – Italy

- Research Fellowship as Electronic Technician with main activities and responsibilities finalized to give technical effort during startup of Laboratory of Surfaces and Interfaces (Superlab), born in 1992 thanks to the common efforts of Consorzio Catania Ricerche, University of Catania (Department of Chemical Sciences) and STMicroelectronics. Superlab is located in the industrial plant of STMicroelectronics of Catania over an area of 182 square meters.

Business or sector Non Profit Research Organization and Technology Transfer

From 02/11/1989 to 02/11/1991

CNR Research Technician

National Research Council (CNR)

Istituto per la Chimica e la Tecnologia dei Materiali Polimerici (ICTMP)

Viale A. Doria, 6 - 95125 Catania – Italy

- Activity mainly focused on electronic, software and Ultra High Vacuum system maintenance of Magnetic-Sector Mass Spectrometer MS 50S - KRATOS ANALYTICAL

Business or sector Public Research Organization

EDUCATION AND TRAINING

- 2013 - 2014 Computer Engineering B.Sc. student at Guglielmo Marconi University, having passed the exams of Mathematics I (6 ECTS), Mathematics II (6 ECTS), General Physics (12 ECTS), Fundamentals of Computing (12 ECTS), Chemistry (6 ECTS), Linguistic Competence (6 ECTS), Economics and Business Organization (6 ECTS), Logical Networks (6 ECTS), Electrotechnics (6 ECTS), Digital Electronics (12 ECTS).
- 1989 - 1991 Research Fellowship of National Research Council (CNR). Two-year fellowship position as Electronic Technician at the "Istituto per la Chimica e la Tecnologia dei Materiali Polimerici (ICTMP)" which was mainly focused on Electronic, Software and Ultra High Vacuum troubleshooting and fault finding related to the system maintenance of Magnetic-Sector Mass Spectrometry KRATOS MS 50S.
- 1992 Research Fellowship of Consorzio Catania Ricerche. Eight months fellowship position of Electronic Technician finalized to startup of Laboratory of Surfaces and Interfaces (Consorzio Catania Ricerche).
- 1987 Technical High School Diploma of "Perito Industriale Capotecnico" with specialization in Industrial Electronics at the High School I.T.I.S. Archimede of Catania (Italy), with final mark of 53 out of 60.
- 2011 Member of "Albo dei Periti Industriali e dei Periti Industriali Laureati" Technician Industrial Engineering of Italy - Catania - Number 1202 - "Industrial Engineer" - Qualification level: DSE - Diploma (post-secondary education), including Annex II (ex 92/51, Annex C,D) , Art. 11 c.
- 2010 Professional qualification to practice profession of "Perito Industriale" specialized in Industrial Electronics, with final mark of 91 out of 100.
- October 2013 "Corso soluzioni wmware", held at National Research Council (CNR), Catania, Italy.
- February 2010 NETZSCH Webinar "PROPRIETA' TERMOFISICHE DI POLIMERI, CERAMICI E METALLI - TECNICA LASER FLASH-LFA", Italy.
- July 2008 Training Course on X-ray Photoelectron Spectrometer AXIS Ultra DLD, held at Kratos Analytical Ltd., Manchester (UK).
- 2002 "La Sicurezza nei Laboratori Chimici", 2 Day training course organized by UniChim, held at University of Catania.
- 1999 Training Course on "Reti pubbliche ISDN", A.I.D., Catania (Italy).
 Training Course on "Local Area Network e tecniche di integrazione di sistemi eterogenei", A.I.D., Catania (Italy).
 Training Course on "Progettazione di circuiti analogici e digitali", A.I.D., Catania (Italy).
- August 1996 English Language Course held at "The Centre for English Language Teaching", Stirling University, Stirling (Scotland).
- February 1995 "Amministrazione di Sistema su Solaris 1.x", 5 Day training course held at Sun Microsystems, Roma (Italy).
- June 1994 "Fondamenti di tecnologia del vuoto, materiali da vuoto, ricerca delle perdite e diagnostica negli impianti". 3 Day training course organized by Leybold S.p.A. held at I.N.F.N., Catania (Italy).
- July 1993 Training course on X-ray Photoelectron Spectrometer AXIS HS, held at Kratos Analytical Ltd., Manchester (UK).

August 1992 BEC English Language Course, 3 weeks full immersion at Oxford Polytechnic, Oxford (UK).

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B2	B1	B1	B2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills

- Good communication skills gained through my twenty-five years job experience where technical skill are a must in problem solving aspects in Material Science research activity.

Organisational / managerial skills

- Webmaster and Member of Organizing Committee of XX Congress of Raman Spectroscopy and non linear optical effects (GNSR 2007).
- Webmaster of Physical Chemistry Division website, Italian Chemical Society (2000-2003).
- Member of "Gruppo Giovani SCI" website commission of the Italian Chemical Society, being the Webmaster from 2004 to 2011.

Job-related skills

- Research Technician with over twenty-five years of experience in Ultra High Vacuum Analytical Instruments and Scientific Equipment of major world-wide manufactures, within Academic Organisations and R&D Laboratories.
- Deep experience in installation, servicing and testing of Ultra High Vacuum Analytical Instruments of major world-wide manufactures, like X-ray Photoelectron Spectroscopy (XPS) and Secondary Ion Mass Spectrometry (SIMS) analytical instruments for Surface and Material Science.
- Expertise on scientific instrumentations with real-time control, data acquisition and processing applications.
- Seasoned skill in servicing and fault finding of surface analysis systems and electronics units of ultra high vacuum instruments. This covers a broad range of high performance analogue and digital electronic cards.
- Instron Universal Testing Machine expertise in peel and pull test for adhesion strength study and thin die strength characterization in microelectronic packaging reliability.
- Know-how with Fujifilm-Dimatix DMP-2831 Inkjet Printer in Printed Electronics applications.
- Skill in LFA 447 NanoFlash® Light Flash System for thermal diffusivity measurements of thin metal films, polymer and ceramic materials.
- IT Support, System Manager and Webmaster skills.

Main skill and responsibilities are focused on the following scientific instruments:

- Kratos Analytical AXIS-HS, XPS technique (X-ray Photoelectron Spectrometer)
- VG Scientific SIMSLAB IIIB, SIMS (Secondary Ion Mass Spectrometry) Spectrometer
- SPM Digital Nanoscope IIIA, Atomic Force Microscopy / Scanning Tunneling Microscopy)
- Plasma Cleaner Plasmod, March Instruments
- Spectrophotometer UV-VIS Cary 1e, Varian Inc.
- Universal Testing Machine, Instron 4501 for adhesion study in Materials Science
- Ion Beam Sputter Deposition apparatus.
- Apparatus deposition of Langmuir-Blodgett films, KSV Ltd
- Optical Microscope ECLIPSE ME600, Nikon
- InkJet Materials Printer DMP-2831, FUJIFILM Dimatix Inc.
- Laser Flash Analysis - Netzsch LFA 447 NanoFlash

Computer skills During my job activity have been acquired computer skills and competences on Personal Computers, Sun Stations and Digital PDP-11 workstations, with reference to their configuration, maintenance and interfacing for data acquisition and real-time control of scientific instruments.

- Good knowledge of Microsoft Office™ tools (Word™, Excel™, PowerPoint™, Access™).
- Good knowledge of graphic design applications (Adobe Illustrator™, PhotoShop™, Fireworks™, Paintshop™, Adobe Image Styler and Image Ready).
- Deep knowledge of Web Design tools (Frontpage™, Macromedia Dreamweaver).
- Competences and skills in programming with HTML, ASP, PHP4, CSS, Visual Basic 6, PBasic™.
- Deep knowledge of Operating Systems: DOS, Windows family (3.1, 3.11, 9x, Me, NT, 2000, XP, 7 and 2003 Server), Solaris 4.X, Linux (Ubuntu and Debian distribution).
- Good knowledge and customization skill of Content Management Systems based on PHP and MySQL database (Wordpress, Drupal, PHPNuke, Mambo).
- Architectural design skill for network infrastructures including router, firewall, switch, hub and storage area network (SAN).
- Oracle VM VirtualBox

CERTIFICATION:

ECDL (EUROPEAN COMPUTER DRIVING LICENSE) CERTIFICATION No. IT-194296

- Other skills**
- Robotics
 - Remote control for home security applications
 - Microcontrollers Programming
 - Web 2.0 Programming.

- Driving licence**
- A, B

ADDITIONAL INFORMATION

- Honours and awards**
- Acknowledgments of Physical Chemistry Division (SCI) for Webmaster activity (2001)
- Acknowledgments of Italian Chemical Society for Webmaster activity of “SCI Giovani” website (2004)

- Projects**
- Component of team work of the following European research projects (most recent):
- Enterprise Europe Network within Bridgeconomies Project supported by European Commission DG Enterprise & Industry
 - TestPEP FPVII - SMEs Research - European Commission DG (2010-2012)
 - WAI - Women Ambassador in Italy – European Commission DG Enterprise & Industry 2009-2010
 - Innovation Relay Centre “Mediterranean Innovation Array- project – European Commission DG Enterprise & Industry 1995 - 2008
 - INNOWATCH Application of Technology Watch Methodology for Assessment of regional innovation

Publications Co-author of scientific publications:

- Antonino Scandurra, **Giuseppe Francesco Indelli**, Roberta Campesato and Orazio Puglisi, "Characterization of Doped Al_{0.8}Ga_{0.2}As/GaAs Heterostructures for Photovoltaic Cells Application by Secondary Ion Mass Spectrometry", presented at XXI Congresso AIV, Catania, 15-17 May 2013.
- Scandurra, A.; **Indelli, G. F.**; Zafarana, R.; Cavallaro, A.; Scrofani, E.; Giry, J.P.; Russo, S.; Bakowski, M., "Molding Compounds Adhesion and Influence on Reliability of Plastic Packages for SiC-Based Power MOS Devices," IEEE Transactions on Components, Packaging and Manufacturing Technology", vol. 3, no.7, pp.1094,1106, July 2013 doi: 10.1109/TCPMT.2013.2247466.
- Scandurra, A., **Indelli, G. F.** and Pignataro, S., Patterned metallizations in perfluorosulphonate membranes by printing methods. Surf. Interface Anal. 2012, 44, 1171–1176. doi: 10.1002/sia.4851.
- A. Scandurra, **G. F. Indelli**, N. G. Spartà, F. Galliano, S. Ravesi and S. Pignataro, "Low Temperature Sintered Conductive Silver Patterns by Ink-Jet Printing for Plastic Electronics", Surf. Interface Anal. 2010, 42, 1163–1167, DOI 10.1002/sia.3229. Published online: 25 Feb 2010, John Wiley & Sons, Ltd.
- A. Scandurra, **G. F. Indelli**, R. Zafarana, A. Cavallaro, E. Scrofani, S. Russo, J. P. Giry and S. Pignataro, "Materials Science Challenges in Green High Power Density Devices 1. The Ag Loaded Glues for Die Bonding", Proceedings of the EMPC 2009, 15-18 June 2009, Rimini, Italy.
- S. Cataldo, C. Musumeci, A. Luzio, D. Spina, S. Fabiano, G. Arrabito, **G. F. Indelli**, A. Scandurra, B. Pignataro, Nano-structured molecular thin films for bio-sensing and plastic-electronics with improved efficiency/cost ratio, short paper - Proceedings Workshop on Nanomaterials Production and Industrial Applications 3 dicembre 2008, Milano.
- A. Scandurra, **G. F. Indelli**, B. Pignataro, S. Di Marco, M. A. Di Stefano, S. Ravesi and S. Pignataro, "Tantalum nitride thin film resistors by low temperature reactive sputtering for plastic electronics", Surface and Interface Analysis, Volume 40, Issue 3-4, Date: March - April 2008, Pages: 758-762 2008, DOI 10.1002/sia.2681
- C. Musumeci, C. Cascio, A. Scandurra, **G. F. Indelli**, C. Bongiorno, S. Ravesi, and B. Pignataro, (2008) Surface Effects on the Growth of Solution Processed Pentacene Thin Films. Surface Science 602 (2008) 993–1005 doi:10.1016/j.susc.2007.12.029
- C. Musumeci, C. Cascio, A. Scandurra, **G. F. Indelli**, C. Bongiorno, S. Ravesi, and B. Pignataro, "Early Growth Stages of Pentacene Film from Solution Processes on Silicon Based Dielectrics", 3rd Annual Organic Microelectronics Workshop, July 8-11 2007, Washington, USA.
- C. Musumeci, C. Cascio, A. Scandurra, **G. F. Indelli**, C. Bongiorno, S. Ravesi and B. Pignataro, "Surface Chemistry Effects on the Early Growth Stages of Pentacene Films from a Soluble Precursor on Silicon-Based Materials", XXXVI Congresso Nazionale di Chimica Fisica, 17 – 22 Giugno 2007, Lecce, Italy.
- A. Scandurra, **G. F. Indelli**, G. Compagnini and S. Pignataro, "Electrical transconduction through organic layers Si-C bonded to silicon substrates", Microelectronic Engineering, Vol. 69, 2-4 pp. 532-535 (2003).
- A. Scandurra, **G. F. Indelli**, S. Pignataro, "Tunneling Current Through Organic Layers Si-C Bonded to n and p Silicon Substrates", 9th MEL-ARI/NID Workshop, Catania, 6-8 February 2002.
- A. Scandurra, R. Zafarana, A. Grasso, B. Pelligra, **G. F. Indelli**, "Study of Adhesion of Molding Compound on Differently Treated Copper Surfaces", EUPAC '96 European Conference on Electronic Packaging Technology & International Conference on Interconnection Technology in Electronics, Deutscher Verband fur Schweisstechnik e. V. Report Series Vol. 173, pp. 151-155 (1996).

Technical publications:

"Il BASIC Stamp® 2 - Un microcontrollore dalle dimensioni di un francobollo" by Giuseppe Francesco Indelli, published online at the manufacturer's website Parallax Inc.
<http://www.parallax.com/downloads/un-microcontrollore-dalle-dimensioni-di-un-francobollo>