

Alessandra Tomaselli

1982: Degree in Electronic Engineering at Pavia University

1989: Ph.D in Electronics and Computer Sciences, University of Pavia

1990: Engineer at Electronics Department, University of Pavia

1994 - present: Electro-optics Teaching Laboratory staff leader, Electronics Department, University of Pavia

1996 - present: Laser Safety Officer of the University of Pavia

2001 - present: Assistant Professor, Electronics Department, University of Pavia

2009 - present: Associated with INFN SPES Project.

2012 - present: Local coordinator of INFN SPES Pavia.

She teaches Physics (first year, first level master degree) and Laser Safety (second level master degree in Electronic Engineering and Bioengineering).

Since 2001 she tutored 11 master degree (2 first level, 9 second level) and 2 PhD thesis.

She started her research activity in 1982 working on design electronic instruments and data acquisition systems for pulsed lasers application in Spectroscopy and Nuclear Physics. She is presently investigating nonlinear microscopy techniques for microelectronics and biology and she is also collaborating in the Selective Production of Exotic Species (SPES) Project of INFN.

Member of CT76 Laser Safety of Italian Electrotechnical Committee and of International Electrotechnical Commission, several invited short courses on Laser Safety.

With Annalisa Guandalini, she was awarded the INFM Progetto Ponte 2002: "Optical scanning microscopy by harmonic excitation".

She has also been a member of the organizing committee of events targeting scientific divulgation, like LASERFEST in 2010 and ONDIVAGHIAMO in 2011 and 2012, which have drawn several thousand visitors.

She authored or co-authored about 60 papers on international technical journals, conference proceedings, book chapters. Co-author of the international patent application No. PCT/EP2013/056681 (true line scanning mode in Two-Photon Fluorescence Microscopy) (2013)

1. Lodo, S., Tomaselli, A., Vacchi, C., Ugolotti, E. Low-cost two-photon microscope with fully customized trajectories (2010) *Progress in Biomedical Optics and Imaging - Proceedings of SPIE*, 7570, art. no. 757016.

2. Scarpa, D., Benetti, P., Tomaselli, A., Grassi D. Two Colour, Three Step Atomic Neodymium Laser Photoionization Monitored by Means of Fast Optogalvanic Effect. LAP2010 - 5th International Conference on Laser Probing / Book of abstracts.

3. Di Marco, C., Hasani, E., Tomaselli A., Piccinini E., Piccinno G.. Lavorazione laser di celle solari a film sottile mediante laser a stato solido di alta potenza : *Fotonica 2010*, Pisa.

4. Tomaselli, A. Evaluation of occupational exposure from LASER radiation [La valutazione dell'esposizione occupazionale alla radiazione LASER] (2010) *Giornale Italiano di Medicina del Lavoro ed Ergonomia*, 32 (4 SUPPL. 1), pp. 63-64.

5. Andrighetto, A., Biasetto, L., Manzolaro, M., Scarpa, D., Montano, J., Stanescu, J., Benetti, P., Cristofolini, I., Carturan, M.S., Colombo, P., di Bernardo, P., Guerzoni, M., Meneghetti, G., Monelli, B., Prete, G., Puglierin, G., Tomaselli, A., Zanonato, P.

Production of high-intensity RIB at SPES (2010) *Nuclear Physics A*, 834 (1-4), pp. 754c-757c.

6. Andrighetto A., Biasetto L., Manzolaro M., Scarpa D., Montano J., Stanescu J., Benetti P., Cristofolini I., Carturan M.S., Colombo P., Di Bernardo P., Guerzoni M., Meneghetti G., Monelli B., Prete G., Puglierin G., Tomaselli A., Zanonato P. (2010). Production of high-intensity RIB at SPES. *NUCLEAR PHYSICS. A*, vol. A 834, p. 754C-757C, ISSN: 0375-9474

7. D. Scarpa, A. Tomaselli, D. Grassi, M. Bruschi, A. Andrighetto, L. Biasetto, M. Manzolaro, S. Corradetti, A. Cavazza, J. Stanescu, J. Montano, G. Bassato, S. Carturan, M. Poggi, L. Boscagli, M. Lollo, L. Costa M. Giacchini, G. Prete, L. Costa M. Giacchini, G. Prete (2010). SPES Laser Activities. *LNL- ANNUAL REPORT*, vol. 230, p. 212, ISSN: 1828-8545

8. J. Vasquez, L. Costa, D. Bof, M. Lollo, A. Andrighetto, L. Biasetto, M. Manzolaro, D. Scarpa, S. Corradetti A. Cavazza, J. Montano, G. Bassato, S. Carturan, M. Poggi, L. Boscagli, M. Giacchini, G. Prete, P. Benetti, A. Tomaselli, S. Coelli, M. Guerzoni, R. Oboe, I. Cristofolini (2010). Safety control system developments for the SPES off-line front end at the LNL. *LNL- ANNUAL REPORT*, vol. 230, p. 210-211, ISSN: 1828-8545

9. A. Andrighetto, L. Biasetto, M. Manzolaro, D. Scarpa, S. Corradetti, A. Cavazza, J. Vasquez, J. Montano G. Bassato, S. Carturan, L. Boscagli, L. Costa, M. Giacchini, M. Lollo, M. Poggi, G. Prete, P. Benetti, A. Tomaselli, S. Coelli, M. Guerzoni, R. Michinelli, R. Oboe6, I. Cristofolini (2010). Status of the SPES target-ion source system. *LNL- ANNUAL REPORT*, vol. 230, p. 202-203, ISSN: 1828-8545

10. L. Biasetto, A. Andrighetto, M. Manzolaro, D. Scarpa, S. Corradetti, A. Cavazza, J. Vasquez, J. Montano G. Bassato, S. Carturan, M. Poggi, L. Boscagli, M. Lollo, L. Costa, M. Giacchini, G. Prete, P. Benetti, A. Tomaselli, S. Coelli, M. Guerzoni, R. Oboe, I. Cristofolini, P. Zanonato, P. Di Bernardo (2010). Uranium carbide for the SPES Project. *LNL- ANNUAL REPORT*, vol. 230, p. 204-205, ISSN: 1828-8545

11. M. Manzolaro, A. Andrighetto, L. Biasetto, D. Scarpa, S. Corradetti, A. Cavazza, J. Vasquez, J. Montano, G. Bassato, S. Carturan, M. Poggi, L. Boscagli, M. Lollo, L. Costa, M. Giacchini, G. Prete, P. Benetti, A. Tomaselli, S. Coelli, M. Guerzoni, R. Oboe, I. Cristofolini (2010). Thermal-electric numerical simulation and experimental test of the surface ion source adopted for the SPES project. *LNL- ANNUAL REPORT*, vol. 230, p. 206-207, ISSN: 1828-8545

12. D. Scarpa, P. Benetti, D. Grassi, A. Tomaselli (2011). Laser activities at the University of Pavia in support to the SPES project. *LNL- ANNUAL REPORT*, vol. 234, ISSN: 1828-8545

13. Scarpa, D., Vasquez, J., Tomaselli, A., Grassi, D., Biasetto, L., Cavazza, A., Corradetti, S., Manzolaro M., Montano, J., Andrighetto, A., and Prete G. Studies for aluminum photoionization in hot cavity for the selective production of exotic species project. *Rev. Sci. Instrum.* 83, 02B317 (2012).