

CURRICULUM VITAE

PERSONAL DATA

Surname: LUPEI
First name: Voicu
Date/Place of Birth: 20 December 1938 / Brad, Romania
Nationality: Romanian
Gender: Male



Languages: English, French, Russian
Romanian (native language)

Office: National Institute for Laser, Plasma and Radiation Physics (INFLPR)
Laboratory of Solid-State Quantum Electronics
409 Atomistilor Str., P.O. Box MG-36, Bucharest R-077125, Romania
Phone/FAX: +40-21 457-4472;
FAX: +40-21 457-4472 / +40 - 21 457-4243 / +(40) - 21 457-4916
Mobile: +40-0743-147407
Email: voicu.lupei@inflpr.ro, v.lupei@pluto.infim.ro,
lupei_voicu@yahoo.com
Web: <http://www.inflpr.ro>, <http://ecs.inflpr.ro>

EDUCATION AND TRAINING

PhD in Physics

Dates / Institution: 1968, University of Cluj, Romania

Graduated

Dates / Institution: 1963, University of Cluj, Romania

CAREER/EMPLOYMENT

Jan. 1969 - present: Institute of Atomic Physics Bucharest, Romania (1969-1977), Institute of Physics and Technology of Radiation Devices - IFTAR (1977-1997), National Institute of Laser, Plasma and Radiation Physics - INFLPR (1997-present), main senior scientist, Head of Solid State Quantum Electronics Laboratory (1972-2007);

Oct. 2002 - Oct. 2005: Co-Director, the Center of Excellence in Photonics, Institute of Atomic Physics, Bucharest, Romania;

March 1998 - Sept. 2000: General Director of the Institute of Atomic Physics, Bucharest, Romania;

Nov. 1963 - Jan. 1969: University of Cluj, Romania; assistant professor

INTERNATIONAL GRANTS, POSITIONS AND VISITS

March 2005:	Okazaki National Research Institutes, Institute of Molecular Sciences, Okazaki, Japan, invited professor;
Oct. 2003 - Dec. 2003:	Invited scientist, CNRS, Univ. Pierre et Marie Curie Paris VI - ENSCP;
August 2003:	Okazaki National Research Institutes, Institute of Molecular Sciences, Okazaki, Japan, invited professor;
October 2002:	Okazaki National Research Institutes, Institute of Molecular Sciences, Okazaki, Japan, invited professor;
June 2001:	Univ. Pierre et Marie Curie Paris VI, France, invited professor ;
September 2001:	Okazaki National Research Institutes, Institute of Molecular Sciences, Okazaki, Japan, visiting scientist;
Oct. 2000 - March 2001:	Okazaki National Research Institutes, Institute of Molecular Sciences, Okazaki, Japan, invited professor;
July 1997:	Univ. Claude Bernard Lyon, France, visiting scientist;
September 1996:	Univ. of Hamburg, Inst. of Laser Physics, Germany, visiting scientist;
Oct. 1995 - Dec. 1995:	Univ. of Hamburg, Inst. of Laser Physics, Germany, visiting scientist under DAAD (Deutscher Austauschdienst) grant;
July 1993 - Oct. 1993:	Univ. of Hamburg, Inst. of Laser Physics, Germany, visiting scientist, under European Community PECO - mobility grant;
June 1992 - Dec. 1992:	Univ. Claude Bernard Lyon, France, visiting scientist, TEMPRA grant of Region Rhone - Alpes for Univ. Lyon;
Aug. 1983 - Sept. 1983:	IAEA Vienna grant for visit of several USA National Research Laboratories;
July 1971 - Feb. 1972:	Argonne National Laboratory, Argonne, USA, visiting scientist, American Academy of Sciences;
Feb. 1971 - July 1971:	Univ. of California, Los Angeles, USA, visiting scientist under grant of the American Academy of Sciences;
March 1968 - April 1968:	CENG Grenoble, France, visiting scientist;
- Short working periods (over 50) at:	IBM Zurich, Switzerland; Oxford Univ., England; Institute of General Physics IOFAN Moscow Russia; Institute of Crystallography, Moscow, Russia; Institute of Physics Prague, Czech. Rep.; Univ. of Heidelberg, Germany; Univ. of Wisconsin, USA; CERN Geneva, ICTP Trieste Italy, etc.

DIDACTIC AND EDUCATIONAL ACTIVITIES

- Scientific supervisor for University graduation diploma;
- Scientific supervisor for Ph. D. thesis (since 1976);
- Associated professor, Univ. of Bucharest;
- Invited professor, Univ. Claude-Bernard Lyon I, 1992;
- Invited professor, Univ. Pierre et Marie Curie Paris VI (2001);
- Invited professor, National Research Institutes, Okazaki, Japan (2000-2001).

SPECIALIZATION

- Main field: Solid State Quantum Electronics and Photonics;
- Other fields: Atomic Physics, Solid State Physics, Interaction of Radiation with Matter;
- Current research interests: Physics of transition and rare earth ions in crystals, spectroscopy, quantum electronics processes in solid media (single crystals, transparent ceramics, low-dimension systems), lasers and photonics, interaction of radiation with matter, laser applications, materials research for nuclear energetic.
- Specific of research activity: *Basic* (theoretical and experimental-magnetic resonance, high resolution and laser spectroscopy, laser emission and nonlinear optics); *applied research* (crystal growth, technology of polycrystalline materials, processing and testing of laser components, vacuum deposition, modeling and construction of laser devices, physics of various applications of lasers); *technological development* (experimental models and techniques, prototypes and small-scale production of laser materials, solid-state lasers and specialized laser equipment for materials processing or medicine).

HONOURS, AWARDS, FELLOWSHIPS, MEMBERSHIP OF PROFESSIONAL SOCIETIES

- Prize for Physics of the Romanian Academy (1967);
- "Scientific Merit" of the Romanian Presidency, Medal (1978) and Order (1983);
- National Order "For Merit" of the Romanian Presidency in rank of Commander (2000);
- Member of the Romanian Physical Society;
- Member of Institute of Electrical and Electronic Engineers IEEE - USA;
- Member of International Society for Optical Engineers SPIE;
- Member of European Rare Earth and Actinide Society ERES;
- Member of the Optical Society of America OSA;
- Member of the American Association for Advancement of Science AAAS;
- Member of the Academy of Scientists of Romania;
- Corresponding Member, European Academy of Arts, Sciences and Humanities.
- Member of the Romanian Academy

PUBLICATIONS

- Papers in refereed journals:** 256
- Communications** in scientific meetings, papers in books and proceedings: around 579:
- 406 in international meetings, of which 41 invited lectures and 250 published in proceedings;
 - 180 in national conferences;
- Patents:** 17 (4 abroad: 3 in Japan, 1 in USA);
- Citations by foreign scientists:** over 2180
- Books:** "Ceramic Lasers" by A. Ikesue, Y. L. Yang and V. Lupei, Cambridge Univ. Press. (2013). (http://www.cambridge.org/gb/knowledge/isbn/item5940233/?site_locale=en_GB)

OTHER ACTIVITIES

- Manager of numerous national and international (5) projects.
- Organizer of scientific summer schools and conferences.
- Scientific referee for over 20 high-level scientific journals.