

Curriculum Vitae

DAN CHICEA

Personal data

Birth date: March 29, 1963, Agnita, Sibiu
Workplace: Faculty of Sciences, University Lucian Blaga of Sibiu, Professor.
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Education

1. High School Baccalaureate (highest honors, top of the class), The Mathematics and Physics High School "Gheorghe Lazar" Sibiu, 1981. Member of the National Physics Olympics Team.
2. Diploma in Physics Engineering. (honors, graduated within the first five in a class of 80). Five years study, specialization: "Nuclear Physics and Nuclear Reactor Physics", University of Bucharest, 1987. Senior Thesis: "The Calculation of the Nuclear Level Densities in the Mass Range 40-60", advisors: Prof. Dr. Gheorghe Vladuca and Dr. Vlad Avrigeanu, major: Nuclear Physics, Neutron Nuclear Reactions.
3. Diploma in Computer Programming and Analysis (summa cum laude, 100%), post-graduate intensive two semester curriculum, 4- hours per week, (equivalent of Course-based Master in Applied Computer Science), Institute for Computer Technique, Sibiu, 1988.
4. Ph.D in Atomic and Nuclear Physics, University Babes – Bolyai, Cluj – Napoca, Romania; PhD thesis: "Nuclear Processes in Metal-Hydrogen Isotopes Systems"; thesis defended in December 1998.

Other educational programs I completed

5. Postgraduate curriculum in Oracle Database System programming, Institute for Computer Technique, Sibiu, 1989.
6. Technology and Pedagogy of Distance Education Curriculum, Universite des Sciences et Technologie de Lille, France, September 2002.

Professional Experience

1. Computer Programmer and Analyst, 1987-1990

Mechanical Enterprise Mirsa-Sibiu

-Developed civil engineering data processing programs. Proficiency in using PDP-11, IBM/DOS hardware platforms. Expertise on RSX11M, DOS, WINDOWS, good proficiency in UNIX operating systems, Expertise on Pascal, Fortran, good proficiency on C and assembly programming languages.

-Assistant Professor, University of Sibiu (part time). Conducted seminars on Introductory Quantum Mechanics for computer science students.

2. Assistant Professor, October, 1990 - March 1996

University of Sibiu, Romania

-Tempus fellow on Computational Physics at the National Institute for Nuclear Physics and High Energy Physics (NIKHEF), Amsterdam. Worked in improving the Timing Data Acquisition Software in Nuclear Physics Experiments (June, 1-August, 31 1993).

-Started work on my PhD Thesis in June 1993. (Advisor: Dr. Gheorghe Vasaru, senior physicist, specialist in Condensed Matter, Co-advisor: Dr. Peter Gluck, senior chemist, both working with the Institute of Isotopic and Molecular Technology, Cluj-Napoca, Romania.

-Conducted seminars and conducted laboratory experimental works for undergraduates, in General and Solid State Physics. Expanded and modernized the laboratory of Solid State Physics; elaborated student handbooks, published by Sibiu University Press.

-Worked on Computational Holography. Results presented in Romanian National Conferences.

3. Lecturer, March 1996 – September 1999

University "Lucian Blaga" of Sibiu

-Lectured on Solid State Physics and taught the General Physics Courses for the Engineering students, lectured on Quantum Mechanics, on Electricity and Magnetism, on Classical Electrodynamics for Physics students and Chemistry students, conducted seminars and laboratory works, supervised and promoted the work for the graduation thesis of chemistry engineering students.

-Lectured on Low Energy Nuclear Reactions in the Program for Continuous Education for High School physics teachers in Sibiu, 1998.

-Worked on Low Energy Nuclear Reactions in Condensed Matter. Results published in international and national physics journals and presented in national and international conferences.

-Worked on neutron spectroscopy and wrote the software for unfolding the neutron spectrum from the recoil proton spectrum.

- I was responsible to prepare the dossier and to file an application and obtaining the authorization for a new undergraduate program in Physics and Chemistry. The program started in October 1996.

4. Associate Professor, October 1-st, 1999 – September 30-th, 2008

Physics Dept., University "Lucian Blaga" of Sibiu

-I lectured on Quantum Mechanics and on Atomic Physics, on Nuclear Physics, on Computational Physics for physics and chemistry students and on General Physics for Civil Engineering students. I supervise and promote the graduation thesis work for physics undergraduate students.

- I worked on simulating the Light Scattering on Disordered Systems statistical properties and dynamics and applications in nanoparticles and nanofluids.

- I worked on Monte Carlo simulation of multiple light scattering in suspensions.

- I was a member of the university senate commission for computer management, strategy and development.

-Reviewer for Fusion Science and Technology, an American Nuclear Society Journal

-Editor-in-Chief, Acta Universitatis Cibiniensis, Series Physics, ISSN:1582-6449 and reviewer as well.

5. Visiting Researcher, July 1999 –January 2000

Nuclear Engineering Dept, University of Illinois at Urbana - Champaign (U.I.U.C.)

- Worked on fabricating very thin metal films by sputtering, on achieving high hydrogen isotopes loading ratios in metal multilayers, on Scanning Electron Microscopy and on characterization of Hydrogen loaded thin films.

- Gave five invited seminars on Metal-Hydrogen isotope related subjects.

6. Visiting Researcher, February – August 2003

Physics Department, Portland State University, U.S.A.

-I worked on metal hydrogen systems and on characterizing post hydrogen absorption metal samples by SEM, EDS, Gamma Ray Spectroscopy, Alpha radiation monitoring.

7. Professor, October 1-st, 2008 –Present

Physics Dept., University "Lucian Blaga" of Sibiu : October 1-st, 2008 –September 30-th, 2012

Environmental Sciences, Physics, Physical Education and Sports Department, September 30-th, 2012 - Present

-I lectured on Biophysics for Food technology students and for students enrolled in Biology program, on Radiometric Methods for Food Products Expertise and Control for Food technology students and on General Physics for Engineering students.

- I worked on Nanoparticles Synthesis and Characterization and on developing new low cost, optical techniques for Nanoparticles Aggregation Monitoring.

- I am a member of the university senate and of university senate commission for research activities.

- I am the director of the Research Center for Respiratory and Pediatric Medicine Center of the university Lucian Blaga of Sibiu.

- I currently serve as a reviewer for the following ISI rated journals: Current Nanoscience, Journal of Hazardous Materials, Journal of Biomedical Optics, Materials Research Brasil, Measurement Science Review, Optical Engineering, Optics_Letters, Optics Communications.

- I serve as a member of the examination panel for PhD theses.

- During 2000-2012 I served as the head of the Physics Department.

- I have been a long time expert for the Armonizarea valențelor românești cu cele ale comunității europene, program POSDRU/CPP107/DML5/S/76851.

- I am responsible for monitoring the PhD students for POSDRU 159/1.5/S/133255, titlul Proiectului „Burse Universitare în România prin Sprijin European pentru doctoranzi și post-doctoranzi (BURSE DOC-POSTDOC)”

Experience in Research projects

(Director, responsible for certain activities or team member)

Project name	Participated as:	Time	Ammount
<i>AN IMPROVED ALGORITHM FOR EVENT TIMING</i> , NIKHEF Amsterdam, The Netherlands, TEMPUS Program	Director	June 1-st 1993- August 31-st, 1993	8500 ECU
<i>STUDII ASUPRA RADONULUI SI THORONULUI SIN SOL, AER, APA SI MATERIALE DE CONSTRUCȚIE: DOZIMETRE PERSONALE ȘI MĂSURĂTORI RETROSPECTIVE</i> , grant CNCSIS.	Team member	January 1-st, 1999- December 31-st, 2000	3000 RON
<i>THE “KIT” PROJECT</i> , Nuclear Engineering Dept., University of Illinois at Urbana Champaign, U.S.A.	Team member	July 15-th, 1999 – January 31-st, 2000	U.S. \$ 100000
<i>STUDII ASUPRA CONCENTRAȚIEI DE METALE GRELE ȘI DE ELEMENTE RADIOACTIVE ÎN SOL ȘI APĂ FREATICĂ ȘI A ACUMULĂRII LOR ÎN PLANTE</i> , grant CNCSIS, Nr.18/2000.	Director	January 1-st, 2001 – December 31-st, 2003	9050 RON
<i>STUDIES ON NATURAL METALLIC URANIUM CHANGES PRODUCED BY HYDROGEN</i> , Portland State University, U.S.A.	Team member, responsible with nuclear radiation measurements	February 15-th 2003 –August 31- st, 2003	U.S. \$ 100000

TEHNOLOGII MODERNE NECONVENȚIONALE, CONFORME CU REGLEMENTĂRILE EUROPENE, DE EPURARE A APELOR UZATE ȘI TRATARE A NĂMOLULUI REZIDUAL ÎN SCOPUL REUTILIZĂRII ACESTUIA, CEE, 2006-2008.	Team member	January 1-st, 2006- December 31-st, 2008	600000 RON
Armonizarea valențelor românești cu cele ale comunității europene, program POSDRU/CPP107/DML5/S/76851	Long time expert	January 1-st, 2010 – 30 Octombrie 2013	3000000 RON
Proiectul POSDRU 159/1.5/S/133255, titlul Proiectului „Burse Universitare în România prin Sprijin European pentru doctoranzi și post-doctoranzi (BURSE DOC-POSTDOC)”	Responsible (for moitoring PhD students)	April 8-th, 2014 - October 30-th, 2015	1000000 EURO
H2020-2014-MSCA-NIGHT (Researchers' night 2014- 2015)	Key person	2014 - 2015	20000 EURO

Scientific contribution and recognition

My scientific contribution is presented in details in the list of published works and can be summarized as follows:

- author of 35 articles in ISI rated journals with impact factor.
- author of 26 student books.
- author of 7 other books in Romanian printing houses and one chapter in a book edited by the Romanian Academy of Sciences.
- coauthor of a book printed abroad and author of four chapters in books printed abroad.
- author of 24 articles in peer reviewed journals indexed in International Databases.
- author of 31 articles in CNCSIS indexed journals.
- author of 76 articles in proceedings on international conferences,
- author of 8 articles in proceedings on national conferences.

As a recognition of my scientific activity I would like to mention, regarding my publishing record and citations:

- My Hirsh h factor is 5, as of ISI web of knowledge, on April 29, 2014 and 7, as of Google scholar.
- Sum of Times Cited without self-citations: 34
- Citing Articles without self-citations: 29
- Average Citations per Item : 1.98

Prizes and other distinctions

- Good score (Mențiune) at the National Physics Contest (Olimpiada Națională de Fizică), 1981. I qualified and became a part of the National Olympic Physics Team.
- Head of the class, "Gheorghe Lazăr" High School, Sibiu, 1981.
- Second prize at the Scientific Conference of the Faculty of Physics, University of Bucharest, Mai 1987.
- Biography published in Marquis' Who's Who and by American Biographical Institute.

I served as a member of the organizing committee of the conferences:

- The Second National Conference on Boundary and Finite Element (ELFIN-2), with International Participation, Sibiu, Romania, May 13 – 15, 1993.
- The National Physics Conference, Sibiu, Romania September 21-24, 1994.
- The 2nd National Conference on Applied Physics, June 9-10th, 2006, Galati, Romania (member of the scientific committee as well).
- International Conference "Micro- to Nano-Photonics - ROMOPTO 2006" August 28-31, 2006, Sibiu, Romania.
- The 5th National Conference "New Research Trends In Material Science" ARM-5, Sibiu, Romania, 5th – 7th September, 2007.
- International Conference "Integrated Systems For Agrifood Production" - Sipa07, Sibiu, Romania, November 2007
- National Physics Conference on Applied Physics, Galați, June 2008, also member of the scientific committee.
- International Workshop: TRENDS IN NANOSCIENCE: THEORY, EXPERIMENT, TECHNOLOGY, August 23-30, 2009, Sibiu, Romania.
- International Conference: Micro- to Nano-Photonics II - ROMOPTO 2009, Aug.31 - Sep.3 2009, Sibiu, Romania
- National Biophysics Conference, with international participation, November 10-12, 2011, president of the Conference.

Affiliation

- Member of the European Physical Society
- Member of the Romanian Physical Society
- Member of the International Society for Condensed Matter Nuclear Science.
- Member of the Institute of New Energy
- Member of the Nanosociety, USA

April 29, 2014

Dan Chicea