December 20, 2014

TOMA ALBU: SHORT CURRICULUM VITAE

M.Sc.: "Basic Notions in the Theory of Preschemes", Bucharest University, 1966.

Ph.D.: "On Some Classes of Modules", Bucharest University, 1971.

Academic Positions: 1966-1979 Assistant Professor, 1979-1990 Senior Lecturer, 1990-1993 Associate Professor, 1993-1997 and 1999-2001 Full Professor, all at the Faculty of Mathematics of the Bucharest University; 1997-1998 Visiting Professor, University of Wisconsin-Milwaukee (USA); 1998-1999 Visiting Professor, The Ohio State University, Columbus (USA) and University of Califormia, Santa Barbara (USA); 2001-2003 Full Professor, Atilim University, Ankara (Turkey); 2003-2007 Full Professor, Koç University, Istanbul (Turkey); 2002-present Senior Researcher at the Simion Stoilow Institute of Mathematics of the Romanian Academy.

Teaching Activities: Courses in College Algebra, Geometry, Precalculus, Calculus, Calculus for Social and Life Sciences, Multivariable Calculus and Linear Algebra, Elements of Finite Mathematics and Calculus, Discrete Mathematics and Combinatorics, Linear Algebra, General Algebra, Abstract Algebra, Applied Abstract Algebra, Group Theory, Commutative Algebra, Theory of Modules and Rings, Homological Algebra, Abelian Categories, Representation Theory of Finite Groups, Representation Theory of Artin Algebras, Lie Algebras, Number Theory, Topics in Galois and Cogalois Theory, Topics in Lattice Theory with Applications to Rings, Modules, and Categories, since 1966 until the present.

Fields of Research: Algebra (Ring Theory, Module Theory, Field Theory, Algebraic Theory of Lattices, Algebraic Number Theory).

Publications: Author or co-author of 4 monographs, 12 textbooks, and about 100 refereed research articles, among which more than 50 are published in various prestigious international journals or proceedings from France, Germany, Great Britain, Holland, Hungary, Italy, Japan, Korea, Poland, Switzerland, Turkey, and USA. More than 550 citations by more than 230 authors from all over the world. A selection of these publications is the following:

- *Une caractérisation des anneaux de Dedekind*, C. R. Acad. Sci. Paris **270**, Série A (1970), 699-702.
- *Sur la dimension de Gabriel des modules*, Algebra Berichte, Bericht Nr. **21**, 1974, Seminar F. Kasch - B. Pareigis, Mathematisches Institut der Universität München, Verlag Uni-Druck, 26 pp.
- *Décompositions primaires dans les catégories de Grothendieck commutatives (I), (II)*, J. Reine Angew. Math. **280** (1976), 172-194, **282** (1976), 172-185 (with C. Năstăsescu).
- *"Relative Finiteness in Module Theory"*, A Series of Monographs and Textbooks, Volume 84, Marcel Dekker, Inc., New York and Basel, 1984, 190 pp. (with C. Năstăsescu).
- *Pure ideals, quotient categories and infinite group-graded rings*, Comm. Algebra **18** (1990), 839-862.
- *Generators in Grothendieck categories with right perfect endomorphism rings*, Osaka J. Math. **28** (1991), 295-304 (with R. Wisbauer).
- *Kummer extensions with few roots of unity*, J. Number Theory **41** (1992), 322-358.
- *Kneser field extensions with Cogalois correspondence*, J. Number Theory **52** (1995), 299-318 (with F. Nicolae).
- *Heckesche Systeme idealer Zahlen und Knesersche Körpererweiterungen*, Acta Arithmetica **73** (1995), 43-50 (with F. Nicolae).
- *Localization of modular lattices, Krull dimension, and the Hopkins-Levitzki Theorem (I)*, Math. Proc. Cambridge Philos. Soc. **120** (1996), 87-101 (with P. F. Smith).
- *Localization of modular lattices, Krull dimension, and the Hopkins-Levitzki Theorem (II)*, Comm. Algebra, **25** (1997), 1111-1128 (with P. F. Smith).

- *Global Krull dimension and global dual Krull dimension of valuation rings*, in "Abelian Groups, Module Theory, and Topology", edited by D. Dikranjan and L. Salce, Marcel Dekker, Inc., p. 37-54 (1998) (with P. Vámos).

- *Generalized deviation of posets and modular lattices*, Discrete Math. **214** (2000), 1-19 (with M. L. Teply).

- *On the nilpotence of the τ-closed prime radical in rings with τ-Krull dimension*, J. Algebra **229** (2000), 498-513 (with G. Krause and M. L. Teply).

- *Bijective relative Gabriel correspondence over rings with torsion theoretic Krull dimension*, J. Algebra **243** (2001), 644-674 (with G. Krause and M.L. Teply).

- *Some examples in Cogalois Theory with applications to elementary Field Arithmetic*, J. Algebra Appl. **1** (2002), 1-29.

- *"Cogalois Theory"*, A Series of Monographs and Textbooks, Volume 252, Marcel Dekker, Inc., New York and Basel, 2003, 368 pp.

- *Infinite Cogalois Theory, Clifford extensions, and Hopf algebras*, J. Algebra Appl. **2** (2003), 119-136.

- *Dual Krull dimension and quotient finite dimensionality*, J. Algebra **284** (2005), 52-79 (with M. Iosif and M.L. Teply).

- *An Abstract Cogalois Theory for profinite groups*, J. Pure Appl. Algebra **200** (2005), 227-250 (with Ş. Basarab).

- *Field theoretic Cogalois Theory via Abstract Cogalois Theory*, J. Pure Appl. Algebra **208** (2007), 101-106.

- *From Field Theoretic to Abstract Cogalois Theory*, chapter in "Handbook of Algebra", Vol. 5, Edited by M. Hazewinkel, Elsevier Science B.V, 2008, pp. 3-84.

- *An indecomposable non-locally finitely generated Grothendieck category with simple objects*, J. Algebra **321** (2009), 1538-1545 (with J. van den Berg).

- *A seventy year jubilee: The Hopkins-Levitzki Theorem*, in "Ring and Module Theory", Trends in Mathematics, Edited by T. Albu, G. F. Birkenmeier, A. Erdoğan, and A. Tercan, Birkhäuser, Basel, pp. 1-26 (2010).

- *Dual Krull dimension, Goldie dimension, and subdirect irreducibility*, Glasgow Math. J. **52A** (2010), 19-32.

- *The Osofsky-Smith Theorem for modular lattices, and applications (I), (II)*, Comm. Algebra **39** (2011), 4488-4506, **42** (2014) 2663-2683.

Invited Talks abroad: More than 40 invited talks at various conferences in Belgium, Brazil, China, Czechia, Egypt, Germany, Greece, Hungary, Israel, Italy, Mexico, Portugal, Spain, South Korea, Turkey, and USA, and more than 10 invited talks at various international conferences in Romania.

Invited Lectures abroad: More than 90 invited lectures at more than 50 universities in Belgium, Brazil, Canada, China, France, Germany, Greece, Israel, Italy, Japan, Kuwait, North Cyprus, South Korea, Turkey, UK, and USA.

Visiting Professor Positions: Japan, Osaka City University (September-October 1990); Italy, Padova University (April-May 1994); USA, University of Wisconsin-Milwaukee (August 1997-June 1998), Ohio State University, Columbus (September 1998-April 1999) and University of California, Santa Barbara (April 1999-August 1999).

Visiting Scientist Positions: Germany [University of Düsseldorf (May 1990, July - August 1993, July 2000, June 2005), University of Bielefeld (July - August 1998), University of Dortmund (July 2000)]; Israel [Ben Gurion University, Beer-Sheva (November 1991, June 2014), Haifa University (November - December 1991)]; United Kingdom [University of Glasgow (January - April 1994, January 2007), University of Exeter (November 1996)]; Canada [McMaster University, Hamilton (January - February 1996), Carleton University, Ottawa (March 1996), University of Manitoba, Winnipeg (March 1998), Royal Military College, Kingston (March 1998), Memorial University of Newfoundland, St. John's (September 2011)]; USA [Ohio State University, Lima (March 1996), Ohio University, Athens (March - April 1996)], Turkey [Hacettepe University, Ankara (August - September 2008, May 2009)]; Kuwait [Kuwait University, Kuwait City (November 2009)], South Korea [Busan National University, Busan (June 2011)], China [Southeast University, Nanjing (July 2013)].

Editorial Positions: Editorial Board Member of the Romanian journal for elementary mathematics *Gazeta Matematică* (founded 1895), since 1980, of the *Bulletin Mathématique de la Société des Sciences Mathématiques de Roumanie* (founded 1892), since 2004, of the *Communications in Algebra* (founded 1972), Taylor & Francis Group, Philadelphia (former Marcel Dekker, Inc., New York), since 2005, and of the *Analele Ştiinţifice ale Universităţii Ovidius Constanţa* (founded 1993), since 2012.

Additional Information: Humboldt Research Fellow (München 1973 and Düsseldorf 1991, 1994, 1996, 2001); Simion Stoilow Prize for Mathematics of the Romanian Academy in 1984; Excellence Prize for 2008 of the SSMR (Romanian Mathematical Society); Member of the American Mathematical Society, since 1974; Co-organizer of the First International Conference on Ring Theory, Bucharest, July 1989, of the International Conference "Algebraic Geometry, Commutative Algebra and Computer Algebra", Constanţa (Romania), September 1996, of the "International Conference on Ring and Module Theory", Hacettepe University, Ankara (Turkey), August 2008, of the International Conference "Fundamental Structures of Algebra - in Honour of Şerban Basarab's 70th Birthday", April 2010, Ovidius University, Constanţa, mainly sponsored by the Alexander von Humboldt Foundation as a Humboldt-Kolleg, and of the Special Session "Noncommutative Ring Theory and Applications" of the First Joint Meeting of the American Mathematical Society and the Romanian Mathematical Society in partnership with the Simion Stoilow Institute of Mathematics of the Romanian Academy, Alba Iulia (Romania), June 2013; Project director of the Faculty of Mathematics of the Bucharest University for the Pure Mathematics part of Grant *TEMPUS S-JEP* 09094-95, 1995 - 1997, awarded by the European Community; Director of Grant *D-7* awarded by the Consiliul Naţional al Cercetării Ştiinţifice din Învăţământul Superior, România, 2000 - 2001; Director of Grant ID-PCE 1190/2008 awarded by the Consiliul Naţional al Cercetării Ştiinţifice în Învăţământul Superior (CNCSIS), România, 2009-2011; Undergraduate Director, Department of Mathematics, Atilim University, Ankara, 2001 - 2003; Member of the Scientifical Council of the Simion Stoilow Institute of Mathematics of the Romanian Academy, 2009-2012; Vice President of the SSMR (Romanian Mathematical Society), since 2012; Referee for both *Mathematical Reviews*, since 1971, and *Zentralblatt für Mathematik*, since 1977.