

70 Years of Professor Alexander P. Seyranian

A. P. Seyranian is prominent scientist whose fields of specialization are Stability Theory, Parametric Resonance, Gyroscopic Stabilization, Mechanics of Solids, Structural Optimization, Singularities and Bifurcations. He has been cooperating with Serbian scientists for long period of time. He is the author of 186 publications, among them 7 monographs in Russian and English. He wrote the technical notes with coauthors in Russia; Technical University of Denmark and Aalborg University, Denmark; Department of Engineering Mechanics, Dalian University of Technology, China; Faculty of Technical Sciences, University of Novi Sad, Serbia; Institute of Mechanics, Yerevan, Armenia; Institute of Engineering Mechanics and Systems, University of Tsukuba, Japan; University La Sapienza, Rome and International Research Center for Mathematics and Mechanics of Complex Systems, Cisterna di Latina, Italy. A. P. Seyranian was elected a Full Member of Russian Academy of Natural Sciences and Foreign Member of National Academy of Sciences of Armenia. He is Member of Editorial offices of 7 International journals: “Theoretical and Applied Mechanics” (Serbia), “Structural and Multidisciplinary Optimization” (Springer), “Mathematical Problems in Engineering” (Hindawi), “Mechanics” (Armenia), “Mathematics and Mechanics of Complex Systems” (Italia), “Applied Mathematics and Mechanics” (Russia), “Applied Mathematics and Mathematical Physics” (Russia).

A. P. Seyranian was born in Moscow on February 15, 1947, and spent his childhood in Armenia. In 1971 he graduated from the Moscow Physical-Technical Institute. In 1971–1973 he worked in the Central Aero-Hydrodynamic Institute of USSR as a research engineer. In 1977 he got Ph.D. degree from the Academy of Sciences of the USSR with the thesis “Structural optimization under several constraints”. In 1977-1991 A. P. Seyranian was a Member of Scientific Staff at the Institute of Problems in Mechanics of the Academy of Sciences in Moscow. In 1988 he got D.Sc. degree with the thesis “Sensitivity analysis and optimization for problems of stability and vibrations of elastic systems” from the Academy of Sciences of the USSR in Moscow. In 1988 in the International Centre of Mechanical Sciences in Udine (Italy) he was a Lecturer of the course “Optimization under Stability and Vibration Constraints”. In 1991–1992 he visited Denmark as a Guest Professor and gave a lecture course “Vibrations and Stability of Systems Depending on Parameters” at the Technical University of Denmark (Lyngby) and Aalborg University. In 1993–1995 he gave the same course at Moscow Technical University n. a. Bauman. Since 1993 A.P. Seyranian is a Leading Researcher and Professor of the Institute of Mechanics, Moscow State Lomonosov University. In 1994 he was invited to give lectures and do

research in China and was nominated Honorary Advisor of National Laboratory for Industrial Equipment of Dalian University of Technology. In 1995 A. P. Seyranian got a grant from NSF and NATO to visit Courant Institute of Mathematical Sciences of New York University as well as University of Michigan, Rice University, University of Maryland and other Universities of USA. In 1995 he was elected a Member of The New York Academy of Sciences. In 1995 A. P. Seyranian was a Member of Organizing Committee of the First World Congress of Structural and Multidisciplinary Optimization in Goslar (Germany). In 1998 he was elected a Member of Editorial Board of the International Journal "Theoretical and Applied Mechanics" published in Yugoslavia. In 2001 A. P. Seyranian was Coordinator and Lecturer of the course "Stability of Structures. Modern Problems and Unconventional Solutions", held in International Centre for Mechanical Sciences in Udine (Italy), and Editor of the book "Modern problems of Structural Stability", 2002, Springer Wien. In 2002 he got the prize of Elsevier Publishers for the best paper published in Journal of Applied Mathematics and Mechanics in 2001. In 2002 he was an Invited speaker of the First Congress on Mechatronics held in Linz, Austria. In 2003 he wrote a fundamental monograph on multi-parameter stability problems (with A. A. Mailybaev) published by World Scientific, Singapore. In 2003 he became an Invited Speaker and Chairman of the Session "Stability and Control Problems in Mechanics" at the conference "Physics and Control 2003", Sankt-Petersburg. In 2003 A. P. Seyranian became a member of Editorial Board of International Journal Structural and Multidisciplinary Optimization. In 2004 he was a chairperson in International Congress of Theoretical and Applied Mechanics in Warsaw and invited speaker of World Congress of Computational Mechanics in Beijing. In 2005 A.P. Seyranian got a grant from the Japanese Society for Promotion of Science to give lectures and do research in Japan. He visited and gave lectures in University of Tsukuba, University of Jamagata, Osaka Prefecture University and Ryukoku University. In 2005 he was an Invited Plenary Speaker and Chairperson in the Conference on modern physics held in Istanbul (Turkey). In 2005 A. P. Seyranian was invited to present a plenary lecture in the Conference on nonconservative and dissipative problems in mechanics organized by Serbian Academy of Sciences and Arts in Novi Sad (Serbia and Montenegro). In 2005 he became Coordinator and Chairperson of the Invited Session "Multiparameter Stability and Control Problems in Physics" at the Conference "Physics and Control 2005", Sankt-Petersburg. In 2005 A. P. Seyranian was a Guest Professor of Rome University "La Sapienza". He gave seminars in Mathematical and Engineering Departments of "La Sapienza" and delivered lectures in University of Bologna and University of Salerno. In 2005 he was a Chairperson in the Conference on nonlinear dynamics held in Łódź (Poland). In 2006 A. P. Seyranian was invited to the Institute of Pure and Applied Mathematics (Rio de Janeiro, Brazil) to give a course "Bifurcations of Eigenvalues and Stability Problems in Mechanics". In 2006 A. P. Seyranian gave a plenary lecture "Multiparameter Stability Theory with Mechanical Applications" in the Polyakhov Readings organized by Sankt-Petersburg University. In 2006 he was an invited speaker of the Conference on Applied Mathematics in Plovdiv (Bulgaria) and of the Jubilee Conference of Mathematical Institute in Belgrade (Serbia). In 2007 A. P. Seyranian as a leader of Moscow group with the partners from Italy, France and Siberia got approval of the INTAS project "Advances of Stability Theory with Mechanical Applications" supported by European Union. He visited Italy and gave seminars at the University of L'Aquila and Rome University "La Sapienza". In 2007 as a member of Organizing Committee and Speaker A. P. Seyranian visited Seoul (Korea) and took part in ISSMO Congress. In 2007 A. P. Seyranian participated in Lyapunov Congress (Sankt-Petersburg) and Chetayev Conference (Irkutsk) as an invited lecturer and chairman of the session. In 2007 A. P. Seyranian became a

member of Editorial board of the International Journal “Mathematical Methods in Engineering”. In July 2007 he was invited lecturer of the course “Stability and Bifurcations of Nonlinear Dynamical Systems” organized in L’Aquila (Italy) by SICON and supported by European Union. In September 2007 A. P. Seyranian organized a Mini-Symposium on stability problems in PhysCon-2007 held in Potsdam (Germany). In December 2007 A. P. Seyranian gave a Plenary Lecture on modern stability problems in the 9th Conference on Dynamical Systems - Theory and Applications in Łódź (Poland). In 2008 he was elected a Correspondent Member of Russian Academy of Natural Sciences. In 2008 in frame of the INTAS project he visited France and Spain and presented seminars in University of Lyon, Evry University in Paris, and Universitat Politècnica de Catalunya in Barcelona (Spain). In June 2008 A. P. Seyranian was an Invited speaker and Chairman of the session in International Conference on Stability, Control and Rigid Bodies Dynamics held in Donetsk (Ukraine). In November 2008 he was elected a Member of Academy of Sciences of Armenia. In 2009 he became a member of Editorial board of the journal “Mechanics” (Armenia). In the same year A. P. Seyranian got Diploma for the paper presented at the Conference dedicated to Chelomei’s 95th Anniversary held in Bauman Moscow State Technical University. In 2010 he was elected a Full Member of Russian Academy of Natural Sciences. In 2010 A. P. Seyranian published (with A. A. Mailybaev) a new book “Multiparameter Stability Problems. Theory and Applications in Mechanics”, Fizmatlit, Moscow in Russian and gave the modern stability courses in Brazil and China. In 2010 and 2012 he was also a member of Organizing Committee and invited speaker of the International conference “Topical problems of continuum mechanics” held in Armenia. In 2011 A. P. Seyranian participated in European Conference on Nonlinear Dynamics (ENOC 2011), Rome, Italy. In 2012 he was invited speaker in the Conference “Physics and Control 2011” held in Leon (Spain) and in 3rd International Congress of Serbian Society of Mechanics, Vlasina Lake (Serbia). In June–July 2012 A. P. Seyranian visited International Research Center for Mathematics and Mechanics of Complex Systems (Cisterna di Latina, Italy) and carried out joint research with Italian colleagues on stability of elastic systems. In 2012 he participated in Euromech Solid Mechanics Conference organized in Graz (Austria). In 2012 A. P. Seyranian got International Tullio Levi-Civita Prize for academic excellence and M. A. Lavrentiev Prize of Russian Academy of Sciences for outstanding achievements in mathematics and mechanics. During last years he visited Bulgaria, Armenia and Serbia where in 2015 he gave lecture.

A. P. Seyranian gave lectures and presented seminars in many Conferences and prominent Universities in Russia, Armenia, USA, Canada, UK, Germany, France, Japan, Austria, Portugal, Rumania, Brazil, Italy, Spain, Netherlands, Ukraine, Bulgaria, China, Poland, Denmark, Korea, Serbia, Sweden, Hungary, Slovakia, and Turkey. His biography is included in the reference books “Who is who in the World”, Marquis, 1999 and 2001, “Who is who in Science and Engineering”, Marquis, 2007 and “Famous Armenians”, Biographical Center, Marseille, France, 2008.

We hope that the cooperation between Serbian scientists and A. P. Seyranian will be continued in the future. We wish to Prof. A. P. Seyranian good health and successful scientific work.

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