

Y.L. Nosenko (1941 – 2003)



VASILE BERINDE

Yuri L. Nosenko had many friends and was acquainted by many people in Romania and, particularly, from North University of Baia Mare and Maramureş county, which he visited several times.

I know he had a surgery operation in November 2002, soon after attending the 3rd International Conference on Applied Mathematics (ICAM 3), held in Baia Mare and Borşa resort, in the middle of October.

But, reading his optimistic e-mails, I was only vaguely aware he had been seriously ill. So, the news of his death came with the suddenness of an earthquake. We were – and still are – stunned by the sense of premature and huge loss.

Yuri Lavrent'evich Nosenko was born on October 23, 1941 in the town Verkhnedepetrovsk, region Dnepropetrovskaya, Ukraine. His parents were both teachers. He graduated Mechanics-Mathematics at Dnepropetrovsk State University in 1964.

In the same year he joined the faculty of the Department of Higher Mathematics at the Donetsk National State Technical University (DNSTU) - his only lifetime employer - where he obtained all academic positions: Assistant (1964 - 1968), Lecturer (Assistant Professor, 1968 - 1984), Docent (Associate Professor, 1984 - 1992) and Full Professor (1992 - 2003).

Since 1988 he was appointed as Deputy Chairman of Higher Mathematics Division (Chair) and, I hope I am not wrong, since the end of 2002 or the beginning of 2003, he wrote me he was appointed as Head of this huge Department.

In 1984 he obtained the second doctoral title (Candidate of Physico - Mathematics Sciences) at the Institute of Applied Mechanics and Mathematics, Donetsk.

His scientific interest was mainly in the theory of approximation, especially Fourier analysis of functions (single and multiple variables), but he was also interested in Didactics of Mathematics for engineering higher education.

He was the author of 120 scientific publications and participated (since 1994) to prestigious scientific events in Czech Republic, Romania, Israel, Finland, USA, Hungary, Germany, Thailand. (It happened that we firstly knew about his death, occurred on April 23, 2003, from the site of a Conference on Approximation theory in USA, where he was registered).

Main results: he discovered the effect of impossibility to approach the linear double Fourier series from below by means of the same smoothness modulus that serve from above, contrary to the single dimensional case; developed a method for analysing the regularity of Bernstein-Rogosinski-type means of double Fourier series; proved new integrability conditions of double Fourier series; studied deviations of linear means of simple and double Fourier series for continuous and integrable functions, in terms of smoothness modulus of these functions.

Y. Nosenko was a member of the Editorial Boards of Didactics of Mathematics and Mining Encyclopedic Dictionary, Donetsk Bulletin of Scientific Technical Society (Ukraine) and Buletinul Științific al Universității Baia Mare, Ser. B, Fascicola Matematică - Informatică, where he also published 7 papers.

He was a reviewer of Zentralblatt für Mathematik.

Yuri Nosenko also assumed some important educational and time - consuming responsibilities: he was Scholar Secretary and Member of Presidium of Scientific - Methodical Committee on Mathematics, of the Ministry of Education and Science of Ukraine (since 1991); he was responsible for the entrance exam at DNSTU for many years and developed a TV course of Mathematics for high school students intending to enter the university.

He published 11 works with the authorization mark of the Ministry of Education and Science of Ukraine; is co-author (with V.V. Pak) of a new concept of presentation of Higher Mathematics to engineering students, together with its methodical aspects.

He designed a new curriculum of Higher Mathematics for students of technical universities and wrote a series of textbooks. He also contributed to the designing of Transitional course of Mathematics. His didactical works are recognized nationally and abroad. He has got Authorization on teaching in English (ESOL certificate of Trinity College London) and had taught his courses not only in Russian and Ukrainian, but also in English.

He was an active member of the SEFI Mathematical Working Group (SEFI = European Association for Engineering Education), since 1994 and attend many SEFI MWG Seminars. Actually we first met in Prague, during

the SEFI Seminar, and met each other many times in the last years (in Helsinki, Cluj-Napoca, Kiev, Donetsk and Baia Mare). This deepened our friendship, which extended to a cooperation agreement established between our universities. It is then not surprisingly that he was also a member of Romanian Mathematical Society (Societatea de Științe Matematice din România).

He was awarded some honors and medals: Medal (Distinction Diplom) "For excellence in Education", Ministry of Higher and High Special Education, USSR; Certificate of Excellence in Education Ukraine, several honors and encouragements from MH&HSE (USSR), Ministry of Education (Ukraine), Donetsk municipal administration, Donetsk National State Technical University Rector's Board etc.

Yuri is survived by his widow Nadezhda (Nadia), a mathematics professor at Donetsk National State Technical University, Department of Higher Mathematics; a son (Vladimir); a daughter (Natalia); and two grandchildren (Katya and Maxim).

Yuri Nosenko was an extraordinary kind, open and generous man. He was extremely respectful of other people and uncompromisingly honest. He was a fine person, invariably friendly, reliable, and helpful. Those of us who were lucky enough to have known him personally feel a tremendous sense of loss of someone very special.

It was my good fortune to meet him, due to our common interest in stimulating creative and inventive skills in our students, and become very good friends.

Yuri was a gentleman and a gentle man. I miss him.

A selective list of Yuri Nosenko's publications:

a) *Papers published in Bul. Științ. Univ. Baia Mare:*

1. Nosenko, Y., *Summability of double Fourier series by Rogosinski-type*, Bul. Științ. Univ. Baia Mare, Ser. B, XVII (2001), No. 1-2, 77-84
2. Nosenko, Y., *Approximation of integrable functions by generalized Abel-Poisson means*, Bul. Științ. Univ. Baia Mare, Ser. B, Fasc. Matematică-Informatică, XVIII (2002), No. 2, 281-284
3. Nosenko, Y., *Approximation of functions by typical means of their Fourier series*, Bul. Științ. Univ. Baia Mare, Ser. B, Fasc. Matematică-Informatică, XI (1995), No.1-2, 71-74
4. Nosenko, Y., *Approximation properties of Cesaro means for Fourier series of integrable functions*, Bul. Științ. Univ. Baia Mare, Ser. B, Fasc. Matematică-Informatică, XIII (1997), No.1-2, 99-106

5. Nosenko, Y., *Regularity of Bernstein-Rogosinsky-type means of double Fourier series*, Bul. Ştiinţ. Univ. Baia Mare, Ser. B, Fasc. Matematică-Informatică, XV (1999), No. 1-2, 127-130

6. Nosenko, Y., *Approximation of functions by generalized Riesz means*, Bul. Ştiinţ. Univ. Baia Mare, Ser. B, Fasc. Matematică-Informatică, XV (1999), No. 1-2, 131-138

7. Nosenko, Y., *Regularity conditions for Bernstein -Rogosinski-type means of double Fourier series*, Bul. Ştiinţ. Univ. Baia Mare, Ser. B, Fasc. Matematică-Informatică, XVI (2000), No. 1, 93-98

b) *Other research papers*

1. Nosenko, Y., *Zamansky-type representation for Riesz means of Fourier series*, East-West Journal of Mathem., May, 2002, p. 35 (Thailand)

2. Nosenko, Y., *Conditions of regularity for Bernstein-Rogosinski-type means of a double Fourier series*, Approximation Theory X, (Classical Analysis) Vanderbilt University Press. 2002, p. 325-332 (USA)

c) *Didactical papers*

1. Nosenko, Y., *Traditional course of Mathematics: Realization and perspectives*, Abstracts of 11 SEFI Seminar, Gothenborg, p. 16

2. Nosenko, Y. and Pak, V.V., *The advanced of mathematics curriculum for technical universities and applied exact sciences V.N.Z. Ukraine* (project, in Ukrainian), 1933, Kyev, N.M.K. Ministry of Education, 24 pages

3. Nosenko, Y., Pak, V.V., Perestiuk, M.O. et all, *Programs for professional training with Mathematics orientation* (in Ukrainian), 1933, Kyev, Ministry of Education, 36 pages

4. Nosenko, Y. and Pak, V.V., *Advanced mathematics* (textbook, in Ukrainian), 1996, Kyev, Lubid, 440 pages

5. Nosenko, Y. and Pak, V.V., *Advanced mathematics* (textbook in Ukrainian), 1997, Donetsk, Stacher, 560 pages

6. Nosenko, Y. and Pak, V.V., *Mathematics curriculum for technical universities, economics ...* (in Ukrainian), Ministry of Education, 1999, Kyev, 45 pages

7. Nosenko, Y. and Nosenko, N.P., *Mathematics for secondary school graduation exams* (in Ukrainian), 2000, Donetsk, T.R.V., 92 pages

8. Nosenko, Y. and Nosenko, N.P., *Mathematics for secondary school graduation exams and intensive course of mathematics* (textbook, in Ukrainian), 2001, Donetsk, TRV, 126 pages

9. Nosenko, Y. and Nosenko, N.P., *Mathematics (II)* (textbook, in Ukrainian), 2001, Donetsk, TRV, 160 pages

10. Nosenko, Y. and Nosenko, N.P., *Mathematics (III)* (textbook in Ukrainian), 2002, Donetsk, TRV, 178 pages
11. Nosenko, Y., *Mathematics (IV)* (textbook, in Ukrainian), 2003, Donetsk RVA, Donetsk National Technical University, 188 pages

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