

Biography of Scientist, Writer, and Artist Florentin Smarandache at 55

Updated and extended by Prof. Mihály Bencze
Department of Mathematics
Áprily Lajos College
Braşov, Romania

Dr. Florentin Smarandache is a *polymath*: as author, co-author, translator, co-translator, editor, or co-editor of **143 books** and **183 scientific papers and notes**.
On December 10th, 2009, he was 55 years old.



Florentin Smarandache in Alaska (August 2009)

Actually he is a *Renaissance man* since he published in many fields, such as: **mathematics** (number theory, statistics, non-Euclidean geometry), **computer science** (artificial intelligence, information fusion), **physics** (quantum physics, particle physics), **economics** (cultural economics, poly-emporium theory), **philosophy** (neutrosophy – a generalization of dialectics, neutrosophic logic – a generalization of intuitionistic fuzzy

logic), **social sciences** (political essays), **literature** (poetry, prose, essays, novel, dramas, children plays, translations), **arts** (avant-garde/experimental drawings, collages, paintings).

He works as a Professor of Mathematics at the University of New Mexico, Gallup Campus, USA.

His books are to be found in Amazon.com, Amazon Kindle, Google Book Search, Library of Congress (Washington D. C.), and in many libraries around the world.

In arXiv.org international scientific database, sustained by Cornell University, he together with co-authors has about 150 scientific papers.

Dr. Smarandache is the creator of *Dezert-Smarandache Theory* in Information Fusion (applied mathematics), together with Dr. J. Dezert from France. This theory is internationally known since it is used in robotics, medicine, military, cybernetics, and every year since 2003 he is invited to present tutorials and papers about it at Fusion International Conferences in Australia (2003), Sweden (2004), USA (2005), Italy (2006), Canada (2007), Germany (2008), or at Marcus Evans's Defense Seminars in Spain (2006), Belgium (2007), or at other universities (in Indonesia in 2006).

He was invited speaker and sponsored by NASA in 2004 and by NATO in 2005.

His papers are published by the Proceedings of these Conferences.

Many Ph D Theses have been sustained at universities in Canada, France, Italy, and a M. Sc. Thesis at Tehran University in Iran.

See the site of DSMT that he designed and maintained himself at: <http://fs.gallup.unm.edu/DSMT.htm>.

In *Smarandache algebraic structures*, such as monoid, semigroup, vector space, linear algebra, etc., students from IIT (Indian Institute of Technology) in Chennai, Tamil Nadu, India, did and still do Ph D theses under the direction of Dr. W. B. Vasantha Kandasamy, who is one of his contributors to many such algebraic structures' studies (see <http://fs.gallup.unm.edu/algebra.htm>).

He set up and developed the *Neutrosophic Logic/Set/Probability*, which are generalizations of fuzzy logic (especially intuitionistic fuzzy logic), fuzzy set (especially intuitionistic fuzzy set), and respectively imprecise probability.

He was an invited speaker at University of Berkeley in 2003 at a conference organized by the famous L. Zadeh, the father of fuzzy sets; also invited speaker in India (2004), Indonesia (2006), Egypt (2007).

There were two Ph D theses on them at Georgia State University in Atlanta, and at Queensland University in Australia (see: <http://fs.gallup.unm.edu/neutrosophy.htm>).

Smarandache notions in Number Theory, also internationally known, such as *Smarandache sequences*, *Smarandache functions*, *Smarandache constants* (which are included even in the prestigious "CRC Encyclopedia of Mathematics", by E. Weinstein, CRC Press, Florida, 1998; see <http://mathworld.wolfram.com/>).

Several *Smarandache functions* are included in the "Handbook of Number Theory", by Jozsef Sandor, Springer-Verlag, 2006.

Smarandache-Wellin Numbers and Primes are also treated in a book by the well-known number theorists R. Crandall and C. Pomerance, called “Prime Numbers: A Computational Perspective”, 2nd ed., New York: Springer-Verlag, 2005.

Other work by Dr. Florentin Smarandache in Number Theory and Combinatorics, such as open problems and conjectures, are subject to many research papers published by Xi’an University from China in the “Scientia Magna” international journal (see its last issue at: <http://fs.gallup.unm.edu/ScientiaMagna4no3.pdf>), and by Chinese Academy of Sciences from Beijing in “International Journal of Mathematical Combinatorics” (see its last issue at: <http://fs.gallup.unm.edu/IJMC-3-2008.pdf>).

In Number Theory there has been organized an International Conference on Smarandache Notions in Number Theory in 1997 at the University of Craiova, Romania (where he graduated as first of his graduates in 1979), organized by Dr. C. Dumitrescu & Dr. V. Seleacu (see <http://fs.gallup.unm.edu/ProgramConf1SmNot.pdf>).

This conference is listed in the prestigious “Notices of the American Mathematical Society” journal, Providence, NJ, USA, Vol. 48, No. 8, p. 903, 2001.

In China there have been organized four “International Conferences on Number Theory and Smarandache Problems” in 2005, 2006, 2007, and 2008. Dr. Zhang Wenpeng together with his students from Northwest University in Xi’an, China, edited an international journal called “Scientia Magna” where there are many papers on Smarandache notions in number theory. Several of them are listed in the prestigious “Notices of the American Mathematical Society” journal.

See for example the proceedings of the 2008 international conference:

<http://fs.gallup.unm.edu/ScientiaMagna4no1.pdf>.

He is the editor of the international journal “Progress in Physics”, printed and edited at UNM-Gallup, with international contributors and sponsors, and subscriptions from various research nuclear institutes from around the world.

See one of its issues at: <http://fs.gallup.unm.edu/PP-03-2008.pdf>.

In Physics he coined the notion of “unmatter”, revealed some “Sorites quantum paradoxes”, used the neutrosophic logic (which is a multi-valued logic) to extend physics spaces, and extended together with V. Christianto physical differential equations from quaternion form to biquaternion form; see also the Smarandache-Christianto potential (<http://fs.gallup.unm.edu/physics.htm>).

In Economics he wrote together with V. Christianto about cultural economics as an alternative for underdeveloped countries, and proposed a poly-emporium theory (<http://fs.gallup.unm.edu/economics.htm>).

In Philosophy he did a synthesis of multiple contradictory philosophical ideas and schools of thought, extending Hegel’s dialectics to neutrosophy, which means analysis of not only the opposites but also the neutralities in between that interact with them (<http://fs.gallup.unm.edu/neutrosophy.htm>).

In humanistic fields, he is the father of “*paradoxism*” in literature, which is an avant-garde movement based on excessive use of antitheses, oxymorons, contradictions,

paradoxes in creations set up by him in 1980's in Romania. He published five International Anthologies on Paradoxism, where have contributed hundreds of writers from over the world (<http://fs.gallup.unm.edu/a/Paradoxism.htm>).

In the frame of or related to the paradoxism he introduced:

- *New types of poetry with fixed form*, such as: the Paradoxist Distich, Tautological Distich, Dualistic Distich, Paradoxist Tertian, Tautological Tertian, Paradoxist Quatrain, Tautological Quatrain, Fractal Poem, Non-Poems (1990), and more poetical avant-garde experiments behind the outer limits of poetry in "Encyclopoetria (Everything is Poetry and Nothing is Poetry)" (2006);
- *New types of short story*, such as: Syllogistic Short Story, Circular Short Story ["Infinite Tale", 1997];
- *New types of drama*, such as: Neutrosophic Drama, Sophistic Drama, Combinatory Drama (a drama whose scenes are permuted and combined in so many ways producing over a billion of billions of different dramas! ["Upside-Down World", 1993];
- and *New types of science fiction genres in prose*, such as:

military science fiction ["The Art of antiWAR / paradoxistINSTRUCTION Notebooks of Captain Gook (or Kook)", 2008];

information technology science fiction ["Inform Technology", 2008];

political science fiction ["International Fonfoism (Manual of Therrory)", 2008];

business and finance science fiction ["Reproduction's disOrganization", 2009];

psychological science fiction ["Textbook of Psychunlogy (MASTER DECREE Thesis)", 2009];

and educational science fiction ["Treatise of Parapedagogy (Ph D Dissentation)", 2009].

These books can be downloaded from the site:

<http://fs.gallup.unm.edu/eBooks-otherformats.htm>.

And *linguistic literary experiments* in the volumes: "Florentin's Lexicon" (2008), interpreting in an opposite sense language clichés, homonyms, etc. ["If anything can go wrong, pass it on to someone else (Florenitn's Laws)"; "The dictator lift the state of emergency with a crane (Florenitn's Clichés)"; "Send me an e-male (Florentin's Homonyms)"; etc.].

Also, a combination of very short poetry, art, and science he did in the volumes "Lyriphoto(n)s / At Mind's Infinite Speed" (2009), and "Aph(l)orisms in Unistiches" (2008).

His anti-dictatorial drama "Country of the Animals", drama with no words!, was performed at the International Festival of Student Theaters, Casablanca (Morocco), September 1-21, 1995, it was staged three times by Thespi Theater (producer Diogene V. Bihoi) and it received The Jury Special Award; it was also staged at Karlsruhe (Germany), September 29, 1995.

While a children play written by him "Pacala, Ursul si Balaurul" [Trickster, the Bead, and the Dragon], was staged by the National Dramatic Theater <I.D.Sîrbu>, director: Dumitru Velea, at Petrosani, Romania, in September 1997;
(<http://fs.gallup.unm.edu/a/theatre.htm>).

He also did *electronic art* (using computer programs), experimental art (*outer-art*), and pledged for the Unification of Art Theories
(<http://fs.gallup.unm.edu/a/oUTER-aRT.htm>).

At Arizona State University, Hayden Library, in Tempe, Arizona, there is a large special collection called “The Florentin Smarandache Papers” (which has more than 30 linear feet) with books, journals, manuscripts, documents, CDs, DVDs, video tapes by him or about his work.

Another special collection “The Florentin Smarandache Papers” is at The University of Texas at Austin, Archives of American Mathematics (within the Center for American History).

His professional web site: <http://fs.gallup.unm.edu/> has about ¼ million hits per month! It is the largest and most visited site at UNM Gallup campus.

Inside this, his sub-directory site **Digital Library of Science** (<http://fs.gallup.unm.edu/eBooks-otherformats.htm>), with many of his published scientific books but also with books and journals of others about his scientific creations, gets about 1,000 hits per day!

His **Digital Library of Arts & Letters** (<http://fs.gallup.unm.edu/eBooksLiterature.htm>), with many of his literary and art books or albums, or about his literary and artistic creations, gets about 100 hits per day.

He became very popular around the world since over **3,000,000 people** per year from about 110 countries read and download his e-books; many of his books have thousands of hits per month.

{And because the biography of a living person is continuously developing and improving I mention the date when I completely it:

March 15, 2010.}