

2.C PRESENTATIONS / TALKS / CONFERENCES ('*' indicates student author)

1. Sept. 1st 2007 - Aug. 31st 2012 (the time period since the last promotion)

Mathematics:

1. *The computation of the Möbius function of a Möbius category*, 2012-Hawaii University International Conference on Mathematics and Engineering Technology, Honolulu, July 31 to August 2, 2012 (with J. Villarreal*)
2. *Möbius categories and Möbius functions*, XA2012-European Conference on Computer Science & Applications, 4th Edition, Timisoara, June 21-23, 2012 (with A. Macedo* and J. Villarreal*)
3. *Characterizations of multiplicative formal power series*, 11th Joint NMSU/UTEP Workshop on Mathematics, Computer Science and Computational Sciences, New-Mexico State University Las Cruces, March 31, 2012 (with A. Kachmar* and J. Villarreal*)
4. *Maximal elements and their group-like set*, 12th Timisoara Academic Days, Romanian Academy, Timisoara, May 27, 2011 (with A. Macedo*)
5. *The Möbius inversion in posets and categories*, NMSU Colloquium, Las Cruces, New-Mexico, April 29, 2010. (invited talk)
6. *A combinatorial research on inverse semigroups*, Research Seminar, University of Texas at El Paso, November 17, 2009
7. *Characterizations of prime numbers using arithmetic functions*, MathFest 2009 Portland-Oregon, Aug. 6-8, 2009
8. *Inverse Semigroups and Formal Languages*, Tibiscus University Romania, June 1st -7th (invited talk) and University of Oradea, Romania, June 15th, 2009 (invited talk)
9. *A partial order on bipartite graphs with n vertices*, APHS 2009, "Actual Trends and Perspectives in Hard and Soft", 5-th edition, Tibiscus University Romania, May 28-29, 2009 (invited talk)
10. *Occurrences of Fibonacci and Thue-Morse words*, 3rd Joint NMSU/UTEP Workshop on Mathematics and Computer Science, New Mexico State University Las Cruces, April 26, 2008
11. *Coordinates pairs of Fibonacci and Thue-Morse words*, CombinaTexas Conference: Combinatorics in the South-Central U.S., University of Texas at El Paso, April 19-20, 2008
12. *Multichannel image decomposition by using pseudo-linear Haar wavelets*, 2007- IEEE International Conference on Image Processing (Special Session: soft computing in image processing, recent advances) San Antonio, Texas, Sept. 16-19, 2007 (with B. Bede)

Education:

13. *Supplemental Instruction for Pre-Calculus. Cross Institutional Implementation*, 2012-Hawaii University International Conference on Mathematics and Engineering Technology, Honolulu, July 31 to August 2, 2012 (with G. Schwab, H. Knaust and B. Salazar*)

14. *Cross-Institutional Implementation of Supplemental Instruction*, Advancing Educational Achievement, Title III and V Project Directors' Meeting, Washington D.C., April 19-21, 2011 (with G.Schwab and H.Knaust)
15. *How to Increase the Student Success in Precalculus courses*, Poster, 17th National Conference on Students in Transition, Houston, Texas, November 13-15, 2010 (with G. Schwab)
16. *Supplemental Instruction Model for Precalculus*, Academic, MathFest 2010, Pittsburg - Pennsylvania, August 7, 2010 (with G.Schwab and H. Knaust)
17. *Supplemental Instruction for Precalculus course*, MAA Southwestern Section / ArizMATYC Joint Meeting, Scottsdale –Arizona, April 9 – 10, 2010 (with G.Schwab and H. Knaust)
18. *Cross Institutional Implementation of Supplemental Instructions*”, Poster, Empowering Institutions, Title III and V Project Directors' Meetings, Washington D.C., March 29-31, 2010 (with G.Schwab)
19. *Cross Institutional Implementation of Supplemental Instructions*”, Poster, 29th Annual Conference on the First-Year Experience, Denver-Colorado, February 12-16, 2010 (with G.Schwab)
20. *Cross Institutional Implementation of Supplemental Instructions*, EPCC Faculty Development, El Paso-Texas, January 12, 2010 (with G.Schwab, H. Knaust and A. Bogdan*, O. Macedo*)
21. *Cross-Institutional Implementation of Supplemental Instruction*, MathFest 2009, Portland-Oregon, Aug. 6-8, 2009 (with G.Schwab and H. Knaust)
22. *Peer-Led Supplemental Instruction for Calculus*, The International Sun Conference on Teaching and Learning, El Paso, February 27, 2009 (with H. Knaust and students: O.Macedo* and M.Fuentes*)
23. *Modular Delivery and Supplemental Instruction (SI) for the Calculus Course*, 28-th Annual Conference on the First-Year Experience, Orlando-Florida, February 6-10, 2009 (with H. Knaust)
24. *Modular Delivery and Peer-Led Team-Learning for Precalculus*, AMS-MAA Joint Mathematics Meetings, Washington DC, January 5-8, 2009 (with H. Knaust)

Before Sept. 1st 2007

25. *On the combinatorial inverse monoid IO_3* , XA 2006 European Conference on Computer Sciences & Applications, 1st edition, Timisoara, Romania, June 2nd-4th, 2006.
26. *How to Increase the Pass Rate in Calculus Dramatically*, The International Sun Conference, UTEP, El Paso, Texas, March 3-4, 2006 (with N. Marcus)
27. *McAlister semigroups and their application in formal languages*, Sequence of Lectures, Tibiscus University of Timisoara, Romania, June 15-22, 2005
28. *Abstract Möbius-division categories are reduced standard division categories of combinatorial inverse monoids*, International Symposium “Actual Trends and Perspectives in Hard and Soft“, Tibiscus University of Timisoara, Romania, May 26-27, 2005
29. *Algebraic characterizations of exponential series*, Annual Meeting, Southwestern Section of the MAA, UTEP, El Paso, April 1-2, 2005

30. *A combinatorial research on inverse monoids via the theory of Mö bius functions*, CombinaTexas Conference: Combinatorics in the South-Central U.S., Texas State University – San Marcos, February 25-26, 2005.
31. *Combinatorics on inverse semigroups*, Department of Mathematical Sciences, Colloquium, The University of Texas at El Paso, Feb. 11, 2005
32. *A characterization of prime numbers*, Annual Meeting Southwestern Section of the MAA and ArizMATYC, Northern Arizona University, Flagstaff, April 2- 3, 2004.
33. *A path through the set of numbers*, EPCC-Faculty Development Workshop El-Paso, Aug.18, 2003
34. *The Mö bius category of a semilattice of finite groups*, Combinatorics 2002, Maratea (Potenza), Italy, June 2-8, 2002
35. *The Mö bius function of a monomorphic and epimorphic triangular category*, CombinaTexas Conference: Combinatorics in the South-Central U.S., University of North Texas, March 29-31, 2002
36. *Monomorphic triangular categories*, Algebra Symposium “Babes-Bolyai” University of Cluj-Napoca, Romania, Nov. 23-24, 2001
37. *Mö bius categories. Applications (formal power series, lattice-triangular categories, semilattice of groups)*, Colloquium-Math. Dept. University of Texas at El Paso, July 9, 2001
38. *Welcom to the world of numbers !*, Colloquium-Math. Dept. University of Texas at El Paso, March 28, 2001
39. *Characterizations of some class of formal power series*, CombinaTexas Conference: Combinatorics in the South-Central U.S., Texas A&M University, March 23-25, 2001
40. *On a representation of combinatorial triangular families of numbers by special Mö bius categories*, CombinaTexas Conference: Combinatorics in the South-Central U.S., Texas A&M University, March 23-25, 2001
41. *On triangular categories II*, Research Seminar, University of Texas at El Paso, USA, Oct. 29, 1998
42. *On triangular categories I*, Research Seminar, University of Texas at El Paso, USA, Oct.22, 1998
43. *Convolutions and arithmetic functions*, PAMM's 119 Conference, Kosice Herlany, Slovakia, Oct. 23-26, 1997
44. *Arithmetic functions and regular convolutions* International Conf. of Appl. Math CAIM'97, Oradea, Romania, Oct. 17-19, 1997
45. *An embedding in the ring of formal power series*, 118-th PAMM Conference, Padova, Italy, Aug. 1997
46. *O teorema de scufundare, (An embedding theorem)* Annual Session of Scientific Communications, Univ. of Oradea, Romania, May 30-31, 1997
47. *Some properties of formal power series*, 117-th PAMM Conference, Balatonalmadi, Hungary, May 8-11, 1997

48. *On triangular categories* , Communications Session , University of Baia-Mare, Romania, Oct. 18-20, 1996
49. *Dinamici categoriale,(Categorical Dynamics)* International Congress “Actual Trends in Cybernetics and Philosophy of Science”, Oradea, Ro, Oct. 17-19, 1996
50. *Calculus of fractions in special categories*, 116-th PAMM Conference, God Hungary, Oct. 10-13 ,1996
51. *The incidence algebra of a triangular category and calculus of fractions*, Combinatorics'96 in honour of Giuseppe Tallini, Assisi-Perugia, Italy, Sept. 8-14,1996
52. *On triangular categories*, 4-th Conference on Applied and Industrial Math., Chisinau (Moldova), Aug. 6-8, 1996 - Oradea (Ro) Aug.16-18, 1996
53. *Möbius categories and inverse categories*, PAMM's 114-th Conference Balatonalmadi, Hungary, 1-5 May 1996
54. *Calcul de fractii in categorii speciale (Calculus of fractions in special categories)*, Annual Session of Scientific Communications, University of Oradea, Romania, June 2-4, 1995
55. *On incidence algebra associated to a Möbius category*, 11-th Romanian National Conference on Algebra, Univ. of Constanta, Sept. 22-25, 1994
56. *Categorii Möbius de tip binomial, (Möbius Categories of Binomial Type)* Annual Session of Scientific Communications, University of Oradea, Romania, May 26-28 ,1994
57. *Asupra categoriilor de ordonare, (On Order Categories)* The fifth Symp. of Math. and its Appl. Research Centre of Romanian Academy and Technical University of Timisoara, Oct. 28-31, 1993
58. *Regular convolutions*, 105-th International Conference of Applied Mathematical Meetings, Univ. of Athens, Greece, Sept. 1993
59. *Möbius categories*, The 104-th PAMM-Conference, Debrecen, Hungary, July 10-14, 1993
60. *Asupra inelelor seriilor formale, (On the ring of formal power series)* Annual Session of Scientific Communications, University of Oradea, May 1993
61. *Aplicatii ale formelor biliniare extinse, (Applications of extended bilinear forms)* 10-th National Conference on Algebra, University of Timisoara, Romania, Sept. 21-23, 1992
62. *Total aditivitate (Complete Additivity)*, Annual Session of Scientific Communications, University of Oradea, Romania, May 29-30, 1992
63. *Definitii echivalente ale multiplcativitatii in algebre incidente reduce, (Equivalent Definitions of multiplicativity in reduce incidence algebras)* The 9-th National Conference on Algebra, University “Babes-Bolyai” of Cluj-Napoca, Romania, Sept. 18-20, 1991
64. *Aditivitate. Multiplcativitate in categorii Möbius (Additivity and Multiplicativity in Möbius Categories)*, The First Session of Scientific Communications Univ. of Oradea, 6-8 June 6-8, 1991
65. *Total aditivitate, (Complete Additivity)* The 8-th Romanian National Conference on Algebra, University of Iasi, October 24-27, 1990

66. *Multiplicite dans les categories de Möbius*, International Conference “Algebra and Algebraic Geometry” University of Bucharest, July 3-8, 1989
67. *Convolutie si multiplicativitate, (Convolution and Multiplicativity)*, Iasi, National Conference in Math, Romania, June 2-3, 1989
68. *Subgrupuri ciclice ale grupului functiilor aritmetice multiplicative. Aplicatii in combinatorica, (Cyclic Subgroups of the Group of Multiplicative Arithmetic Functions. Applications in Combinatorics)* Romanian National Conference on Algebra, University of Brasov, June 9-10, 1988