O P - S F N E T - Volume 18, Number 3 – May 15, 2011

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The Electronic News Net of the
SIAM Activity Group on Orthogonal Polynomials and Special Functions
http://math.nist.gov/opsf/
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Today's Topics

Calendar of Events:

May 17-21, 2011
International Symposium in Approximation Theory, Nashville, Tennessee, USA
http://www.math.vanderbilt.edu/~Nashville2011/

May 30- June 3, 2011
International Conference on Asymptotics and Special Functions, Hong Kong
http://www6.cityu.edu.hk/rcms/ICASF2011/index.html

June 5-11, 2011
Computational Complex Analysis and Approximation Theory (CCAAT 2011).
in honor of Professor Nicolas Papamichael, Protaras, Cyprus
http://www.cyprusconferences.org/ccaat/

June 17-23, 2011
"Painlevé equations and related topics", St. Petersburg, Russia
http://www.pdmi.ras.ru/EIMI/2011/PC/index.html

June 27-29, 2011

CECAM workshop "Spin Networks in Atomic and Molecular Physics, Quantum Chemistry and Quantum Computing ", Zurich, Switzerland
http://www.cecam.org/workshop-521.html

July 3-8, 2011

ESF Research Conference: Completely Integrable Systems and Applications, Vienna, Austria
http://www.esf.org/activities/esf-conferences/details/2011/confdetail369.html

July 3-9, 2011

22th International Workshop on Operator Theory and Applications, Universidad de Sevilla, Seville, Spain.
http://congreso.us.es/iwota2011/

July 4-14, 2011

Foundations of Computational Mathematics FOCM'11. Budapest, Hungary, including minisymposia on “Special Functions and Orthogonal Polynomials”, “Asymptotic analysis and high oscillation” and “Approximation theory”. 17.4 #2
http://www.damtp.cam.ac.uk/user/na/FoCM11/

July 18-22, 2011

ICIAM 2011 - 7th International Congress on Industrial and Applied Mathematics, Vancouver, Canada (including minisymposium on “Painlevé equations”) 17.6 #6
http://www.iciam2011.com

July 24-29, 2011

Complex Analysis, Operator and Approximation Theories, Conference dedicated to the memory of Franz Peherstorfer, Linz, Austria
http://www.caota2011.jku.at/

July 28-30, 2011

International Conference on Special Functions & their Applications (ICSFA 2011), (10th Annual Conference of SSFA), Jodhpur, India
http://www.ssfaindia.webs.com/conf.htm

August 8-13, 2011

"Formal and Analytic Solutions of Differential and Difference Equations", Bedlewo, Poland
http://www.impan.pl/~fasde/

August 15-19, 2011

Special Functions and Orthogonal Polynomials of Lie Groups and their Applications, Decin, Czech Republic, 15-19 August, 2011
http://www.imath.kiev.ua/~maryna/conf2011.html

August 22-26, 2011
Paul Turán Memorial Conference, Budapest, Hungary
http://www.renyi.hu/~turan100/

August 22-27, 2011
8th ISAAC Congress, Moscow, Russian Federation 18.1 #3
http://www.isaac2011.org/

August 29 – September 2, 2011
OPSFA-11: 11-th International Symposium on Orthogonal Polynomials, Special Functions and Applications, to celebrate Francisco (Paco) Marcellán´s 60-th birthday, Madrid, Spain 17.4 #1 18.3 #2
http://gama.uc3m.es/opsfa11/

September 11-17, 2011
Fourteenth International Conference on Functional Equations and Inequalities (14th ICFEI), Będlewo, Poland
http://mat.ap.krakow.pl/icfei/14ICFEI/index.php

September 19 - 25, 2011
9th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM), Hilkidiki, Greece,
http://www.icnaam.org/

Topic #1 ---------- OP-SF NET 18.3 ---------- May 15, 2011

From: Francisco J. Marcellán pacomarc@ing.uc3m.es
Subject: Letter from the Chair: Gabor Szegő Prize

Tom Claeys is the winner of the 2011 Gabor Szegő Prize for his important contributions to the theory of Painlevé functions, throwing new light on the correspondence between two different Painlevé hierarchies, and giving significant applications to random matrix theory.

Tom Claeys was nominated for his work in the theory of Painlevé functions which many leading experts consider to be the special functions of the 21st century. His work is always motivated by applications from random matrix theory, or integrable systems, or Toeplitz determinants. His nomination was based on two important papers:

- T. Claeys & M. Vanlessen, The existence of a real pole-free solution of the fourth order analogue of the Painlevé I equation, Nonlinearity 20 (2007), 1163–1184
  (with two more papers by Claeys et al. in Comm. Math. Phys. building on this paper);

- T. Claeys, A.R. Its & I. Krasovsky, Higher order analogues of the Tracy-Widom distribution and the Painlevé II hierarchy, Comm. Pure Appl. Math. 63 (2010), 362–412.

The first paper demonstrates the existence of a particular solution of the P-I2 equation (a nonlinear fourth order ODE which is the second member of the Painlevé I hierarchy). The required solution is pole-free on the real line with prescribed asymptotic behaviour at infinity. It was obtained by solving a Riemann-Hilbert problem characterizing the solution. The two follow-up papers dealt with applications to random matrix theory and to oscillations in Hamiltonian perturbations of hyperbolic systems.

The second paper deals with higher-order analogues of the Tracy-Widom distribution (a distribution function that describes the fluctuations of the largest eigenvalue for a large class of random matrix ensembles). By evaluating the corresponding Fredholm kernel the paper reveals a surprising correspondence between the even members of the Painlevé I hierarchy, and the Painlevé II hierarchy.

In each of the two papers submitted by the nominee, the role played by Tom Claeys is pivotal. It is clear that he is the equal or pre-eminent co-author in producing this important work. His independence as a post-doctoral researcher is evident. One co-author, Alexander Its writes: “In the work on higher order analogues of the Tracy-Widom distribution, Tom was the principal driving force of this project. He specified the analytical setting of the problem, put in motion each of the principal steps in its solution and performed, together with our third co-author - I. Krasovsky - all the key calculations.”

On the basis of our evaluation of the originality, independence and importance of his work, the Committee (F. Marcellán, T. H. Koornwinder, R. Askey, K. Driver and R. Wong) nominated Tom Claeys as the first worthy recipient of the Gabor Szegő prize for 2011. This proposal was approved by Nick Higham, the Vice President at Large of SIAM on April 6, 2011.

The Szegő Prize will be awarded at OPSFA 2011 to be held August 29 - September 2, 2011, at Universidad Carlos III de Madrid in Leganés, Spain.
http://gama.uc3m.es/opsfa11/
On Monday, August 29, a brief ceremony, from 12:00 to 12:25, will be followed immediately by the invited lecture by the prizewinner, scheduled for 12:30 - 13:25.

Tom Claeys did all his mathematics studies at Katholieke Universiteit Leuven in Belgium, where he entered in 1999, obtained his Licenciate in 2003, and became a Doctor in Sciences (Mathematics) on December 11, 2006. His doctoral thesis had the title “Universality in critical random matrix ensembles and pole-free solutions of Painlevé equations”. His thesis advisor was Prof. Arno Kuijlaars. He had a grant as post-doctoral researcher from FWO (Foundation for Scientific Research - Flanders) during the academic years 2007-2009, the first of which he spent at Brunel University West-London and the second again in Leuven. During 2009-2010 he was Maître de Conférences at Université de Lille 1 in France. SInce September 2010 he has been Chargé de Cours at Université Catholique de Louvain in Louvain-la-Neuve, Belgium. He has been an author or coauthor of 10 papers in such journals

as *Annals of Math., Comm. Math. Phys., Comm. Pure Appl. Math., IMRN, Nonlinearity,* and *SIAM J. Math. Anal.*

Tom Claeys homepage is at
http://perso.uclouvain.be/tom.claeys/

Topic #2 ---------- OP-SF NET 18.3 ---------- May 15, 2011

From: OP-SF NET Editors
Subject: Update on OPSFA 2011

As announced in OP-SF NET 17.4
Universidad Carlos III de Madrid will host the 11-th International Symposium on Orthogonal Polynomials, Special Functions and Applications in Leganés, Madrid, from August 29 to September 2, 2011,. The meeting will be dedicated to celebrate Francisco (Paco) Marcellán´s 60-th birthday. The web site
http://gama.uc3m.es/opsfa11/
contains some updated information on speakers, etc as well as a short biograohy of Paco by Guillermo López Lagomasino. The deadline for early registration and submission of abstracts is May 31, 2011. Early registration is required to be considered for talks and posters.

Topic #3 ---------- OP-SF NET 18.3 ---------- May 15, 2011

From: Tom Koornwinder T.H.Koornwinder@uva.nl
Subject: Statistics on membership

The Letter from the Chair in OP-SF NET 18.2 gave a report of a conference call with some SIAM administrators. Item 4 of this report said: "The percentage of SIAG/OPSF members from outside the US (19%) is lower than for SIAM overall (31%)." I have checked this myself using the current version of the SIAG/OPSF member directory. My outcome is quite different. The SIAG/OPSf has 129 members of which 69 are in the USA and 60 outside the USA. The best represented countries outside USA are Germany and Spain, both with 9 members. I conclude that the percentage of SIAG/OPSF members from outside the US (47%) is considerably higher than the percentage for SIAM overall (31%). Jeff Geronimo has checked these new counting results with Susan Whitehouse, membership manager of SIAM, and she has confirmed them. In fact, her counts were done on December 31, 2010, when there were 145 members, of which 79 US and 66 non-US, leaving the proportions about the same.

Topic #4 ---------- OP-SF NET 18.3 ---------- May 15, 2011

From: Martin Muldoon muldoon@yorku.ca
Subject: Report on Washington Conference dedicated to Frank Olver

A conference "Special Functions in the 21st Century: Theory and Applications" was held in Washington, DC during April 6-8, 2011.

Participants included the editors and many of the authors of the recently published NIST Handbook of Mathematical Functions and Digital Library of Mathematical Functions (DLMF); see http://dlmf.nist.gov The conference was dedicated to Professor Frank Olver in light of his seminal contributions to the advancement of special functions, especially in the area of asymptotic analysis and as Mathematics Editor of the DLMF.

The Plenary Speakers were Richard Askey, Michael Berry, Nalini Joshi, Leonard Maximon, William Reinhardt and Roderick Wong. There were about 35 other speakers. Many speakers paid tribute to Frank Olver for his pioneering work and for his skilful guidance of the DLMF project. It is noteworthy that Frank is the only person to have contributed Chapters both to the present project and to the Handbook of Mathematical Functions published by NBS (predecessor of NIST) in 1964. The updated program and slides for many of the talks can be seen at http://math.nist.gov/~DLozier/SF21/

The Conference was held in the comfortable (but pricey) Renaissance Washington Dupont Circle Hotel (actually located at New Hampshire Avenue and M Street) in downtown Washington. On April 7, many of the attendees crowded into what at first seemed an impossibly small back room in a Georgetown restaurant to honor Frank and his family. But the small size lent intimacy to the occasion and the many tributes to Frank. Frank himself spoke of his appreciation for the people he worked with at the Admiralty Computing Service and the National Physical Laboratory in the UK as well as the National Bureau of Standards and the University of Maryland in the US. As it happened, these positions were offered to him rather than applied for.

There are several mathematicians among Frank's immediate family present at the dinner. His son Peter is currently Head of the School of Mathematics at the University of Minnesota. Peter is married to Cheri Shakiban who is Chair of Mathematics at University of St. Thomas, St. Paul, Minnesota. Their son Sheehan

Olver, a speaker at the Conference, is Junior Research Fellow in Applied Mathematics at St. John's College in the University of Oxford.

The Organizing Committee consisted of Daniel Lozier, Adri Olde Daalhuis, Nico Temme, and Roderick Wong. As local organizer, Dan did an outstanding job in ensuring the smooth running of the conference.

Topic #5 ---------- OP-SF NET 18.3 ---------- May 15, 2011

From: OP-SF NET Editors
Subject: Passings

Philippe Flajolet (1948 – 2011), member of the French Academy of Sciences and research director (senior research scientist) at INRIA in Rocquencourt, died on March 22, 2011. See the tributes on Dick Lipton's blog
http://rjlipton.wordpress.com/2011/03/27/philippe-flajolet-1948-2011/
and Flajolet's home page
http://algo.inria.fr/flajolet/

Flajolet was best known for analyzing the computational complexity of algorithms. A number of his joint articles touched on special functions and closely related areas. See, for example, titles such as "Pseudo-factorials, elliptic functions, and continued fractions" , "A hybrid of Darboux's method and singularity analysis in combinatorial asymptotics", "The Fermat cubic, elliptic functions, continued fractions, and a combinatorial excursion" and "Nonoverlapping partitions, continued fractions, Bessel functions and a divergent series".

J. Ernest Wilkins, Jr. (1923-2011), mathematician and nuclear scientist, died on May 1, 2011. He entered the University of Chicago at age 13 and completed a PhD under the supervision of M. R. Hestenes at age 19. See
http://www.ams.org/news?news_id=1138
Wilkins work in special functions ranges from articles on Bessel and related functions in the late 1940s to "The expected value of the number of real zeros of a random sum of Legendre polynomials" in 1997.

Topic #6 ---------- OP-SF NET 18.3 ---------- May 15, 2011

From: OP-SF NET Editors
Subject: "The concrete tetrahedron"

This information is from the Springer web site:
http://www.springer.com/mathematics/analysis/book/978-3-7091-0444-6

Manuel Kauers and Peter Paule, Peter

The Concrete Tetrahedron: Symbolic Sums, Recurrence Equations, Generating Functions, Asymptotic Estimates

Series: Texts & Monographs in Symbolic Computation
1st Edition., 2011, X, 203 p. 20 illus.
Softcover, ISBN 978-3-7091-0444-6
US$69.95

About this textbook

The book treats four mathematical concepts which play a fundamental role in many different areas of mathematics: symbolic sums, recurrence (difference) equations, generating functions, and asymptotic estimates.
Their key features, in isolation or in combination, their mastery by paper and pencil or by computer programs, and their applications to problems in pure mathematics or to "real world problems" (e.g. the analysis of algorithms) are studied. The book is intended as an algorithmic supplement to the bestselling "Concrete Mathematics" by Graham, Knuth and Patashnik.

Content Level » Upper undergraduate

Keywords » asymptotics - formal power series - recurrence equations - symbolic computation - symbolic summation

Table of contents

Topic #7 ---------- OP-SF NET 18.3 ---------- May 15, 2011

From: OP-SF NET Editors
Subject: Preprints in arXiv.org

The following preprints related to the fields of orthogonal polynomials and special functions were posted or cross-listed to one of the subcategories of arXiv.org mostly during March and April 2011.

http://arxiv.org/abs/1103.5948
An orthogonal polynomial coefficient formula for the Hankel transform
Paul Barry

http://arxiv.org/abs/1103.5848
Laguerre and Meixner orthogonal bases in the algebra of symmetric functions
Grigori Olshanski

http://arxiv.org/abs/1104.0460
Jost asymptotics for matrix orthogonal polynomials on the real line
Rostyslav Kozhan

http://arxiv.org/abs/1104.0615
An orthogonal polynomial analogue of the Landau-Pollak-Slepian time-frequency analysis
Wolfgang Erb

http://arxiv.org/abs/1104.3511
Prepotential approach to solvable rational potentials and exceptional orthogonal polynomials
C.-L. Ho

http://arxiv.org/abs/1104.3778
The nearest neighbor recurrence coefficients for multiple orthogonal polynomials
Walter Van Assche

http://arxiv.org/abs/1104.4055
On a nonorthogonal polynomial sequence associated with Bessel operator
Ana F. Loureiro, P. Maroni, S. Yakubovich

http://arxiv.org/abs/1104.4999
Szegő's theorem for matrix orthogonal polynomials
Maxim Derevyagin, Olga Holtz, Sergey Khrushchev, Mikhail Tyaglov

http://arxiv.org/abs/1103.6273
Euler--Mellin integrals and A-hypergeometric functions
Christine Berkesch, Jens Forsgård, Mikael Passare

http://arxiv.org/abs/1104.1369
Algebraic geometry and generalized hypergeometric functions
A. Stoyanovsky

http://arxiv.org/abs/1104.1994
More hypergeometric identities related to Ramanujan-type series
Jesus Guillera

http://arxiv.org/abs/1104.4736
On quotients and differences of hypergeometric functions
Slavko Simić, Matti Vuorinen

http://arxiv.org/abs/1104.0396
Hypergeometric identities for 10 extended Ramanujan-type series
Jesus Guillera

http://arxiv.org/abs/1103.1210
On integrals involving Hermite polynomials
D. Babusci, G. Dattoli, M. Quattromini

http://arxiv.org/abs/1103.2610
Fibonacci polynomials, generalized Stirling numbers, and Bernoulli, Genocchi and tangent numbers
Johann Cigler

http://arxiv.org/abs/1103.3214
The Shi arrangements and the Bernoulli polynomials
Daisuke Suyama, Hiroaki Terao

http://arxiv.org/abs/1103.5168
About sum rules for Gould-Hopper polynomials
O. Lévêque, C. Vignat

http://arxiv.org/abs/1103.5724
Two-step Darboux transformations and exceptional Laguerre polynomials
David Gomez-Ullate, Niky Kamran, Robert Milson

http://arxiv.org/abs/1104.2699
Some beautiful q-analogues of Fibonacci and Lucas polynomials
Johann Cigler

http://arxiv.org/abs/1104.3218
About the operator creating secondary polynomials
Roland Groux

http://arxiv.org/abs/1104.3511
Prepotential approach to solvable rational potentials and exceptional orthogonal polynomials
C.-L. Ho

http://arxiv.org/abs/1104.3773
Recurrence coefficients of a new generalization of the Meixner polynomials
Galina Filipuk, Walter Van Assche

http://arxiv.org/abs/1104.2813
The universal Askey-Wilson algebra
Paul Terwilliger

http://arxiv.org/abs/1103.0058
A Remarkable Identity Involving Bessel Functions
Diego E. Dominici, Peter M.W. Gill, Taweetham Limpanuparb

http://arxiv.org/abs/1104.4442
Complete monotonicity of a function involving the gamma function and applications
Feng Qi

http://arxiv.org/abs/1103.5232
A unified approach to q-special functions of the Laplace type
Yousuke Ohyama

http://arxiv.org/abs/1104.0755
A connection formula between the Ramanujan function and the q-Airy function
Takeshi Morita

http://arxiv.org/abs/1103.6226
Experiments with zeta zeros and Perron's formula
Robert Baillie

http://arxiv.org/abs/1103.5235
Period functions for Hecke triangle groups, and the Selberg zeta function as a Fredholm determinant
M. Möller, A.D. Pohl

http://arxiv.org/abs/1104.1358
A consequence of Littlewood's conditional estimates for the Riemann zeta-function and a way to disproof of the Riemann hypothesis
Sergei Preobrazhenskii

http://arxiv.org/abs/1104.3406
The Ramanujan master theorem and its implications for special functions
K. Gorska, D. Babusci, G. Dattoli, G. H. E. Duchamp, K. A. Penson

http://arxiv.org/abs/1103.5126
Ramanujan's Master Theorem for Riemannian symmetric spaces
Gestur Olafsson, Angela Pasquale

http://arxiv.org/abs/1103.0118
Stieltjes Functions and Hurwitz Stable Entire Functions
Victor Katsnelson

http://arxiv.org/abs/1104.4940
Riemann-Hilbert approach to multi-time processes; the Airy and the Pearcey case
M. Bertola, M. Cafasso

http://arxiv.org/abs/1103.3556
Asymptotics of Padé approximants to a certain class of elliptic-type functions
Laurent Baratchart, Maxim Yattselev

http://arxiv.org/abs/1104.4798
Formulas for the approximation of the complete Elliptic Integrals
Nikos Bagis

http://arxiv.org/abs/1103.2443
Non-integrability of the second Painleve equation as a Hamiltonian system
Tsvetana Stoyanova, Ognyan Christov

http://arxiv.org/abs/1103.6075
Symmetries in the third Painlevé equation arising from the modified Pohlmeyer-Lund-Regge hierarchy
Tetsuya Kikuchi

http://arxiv.org/abs/1104.3599
Non-hermitian Hamiltonians and Painlevé IV equation with real parameters
David Bermudez, David J. Fernández C

http://arxiv.org/abs/1104.5273
Phase coherent states with circular Jacobi polynomials for the pseudoharmonic oscillator
Zouhair Mouayn

http://arxiv.org/abs/1104.2109
Deformation Expression for Elements of Algebras (I) --(Jacobi's theta functions and *-exponential functions)--
Hideki Omori, Yoshiaki Maeda, Naoya Miyazaki, Akira Yoshioka

http://arxiv.org/abs/1104.3376
Singular components of spectral measures for ergodic Jacobi matrices
C.A. Marx

http://arxiv.org/abs/1104.2401
Convexity of Quotients of Theta Functions
Atul Dixit, Arindam Roy, Alexandru Zaharescu

Topic #8 ---------- OP-SF NET 18.3 ---------- May 15, 2011

From: OP-SF NET Editors
Subject: About the Activity Group

The SIAM Activity Group on Orthogonal Polynomials and Special Functions consists of a broad set of mathematicians, both pure and applied. The Group also includes

engineers and scientists, students as well as experts. We have around 130 members scattered about in more than 20 countries. Whatever your specialty might be, we welcome your participation in this classical, and yet modern, topic. Our WWW home page is:
http://math.nist.gov/opsf/

This is a convenient point of entry to all the services provided by the Group. Our Webmaster is Bonita Saunders (bonita.saunders@nist.gov).

The Activity Group sponsors OP-SF NET, an electronic newsletter, and SIAM-OPSF (OP-SF Talk), a listserv, as a free public service; membership in SIAM is not required. OP-SF NET is transmitted periodically through a post to OP-SF Talk. The OP-SF Net Editors are Diego Dominici (dominicd@newpaltz.edu) and Martin Muldoon (muldoon@yorku.ca).

Back issues of OP-SF NET can be obtained at the WWW addresses:
http://staff.science.uva.nl/~thk/opsfnet
http://math.nist.gov/~DLozier/OPSFnet/

For several years the Activity Group sponsored a printed Newsletter, most recently edited by Rafael Yanez. Back issues are accessible at:
http://www.mathematik.uni-kassel.de/~koepf/siam.html

SIAM-OPSF (OP-SF Talk), which was recently moved to a SIAM server, facilitates communication among members and friends of the Activity Group. To subscribe, go to http://lists.siam.org/mailman/listinfo/siam-OPSF. To contribute an item to the discussion, send email to siam-opsf@siam.org .The archive of all messages can be found by following links at http://siam.org/activity/listservs.php. The moderators are Bonita Saunders (bonita.saunders@nist.gov) and Diego Dominici (dominicd@newpaltz.edu).

SIAM has several categories of membership, including low-cost categories for students and residents of developing countries. For current information on SIAM and Activity Group membership, contact:
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3600 University City Science Center
Philadelphia, PA 19104-2688 USA
phone: +1-215-382-9800
email: service@siam.org
WWW : http://www.siam.org
http://www.siam.org/membership/outreachmem.htm

Topic #9 ---------- OP-SF NET 18.3 ---------- May 15, 2011

From: OP-SF NET Editors
Subject: Submitting contributions to OP-SF NET and SIAM-OPSF (OP-SF Talk)

To contribute a news item to OP-SF NET, send email to one of the OP-SF Editors dominicd@newpaltz.edu or muldoon@yorku.ca .
Contributions to OP-SF NET 18.4 should be sent by July 1, 2011.

OP-SF NET is an electronic newsletter of the SIAM Activity Group on Special Functions and Orthogonal Polynomials. We disseminate your contributions on anything of interest to the special functions and orthogonal polynomials community. This includes announcements of conferences, forthcoming books, new software, electronic archives, research questions, and job openings. OP-SF NET is transmitted periodically through a post to SIAM-OPSF (OP-SF Talk).

SIAM-OPSF (OP-SF Talk) is a listserv of the SIAM Activity Group on Special Functions and Orthogonal Polynomials, which facilitates communication among members, and friends of the Activity Group. See the previous Topic. To post an item to the listserv, send email to siam-opsf@siam.org .

WWW home page of this Activity Group:
http://math.nist.gov/opsf/
Information on joining SIAM and this activity group: service@siam.org

The elected Officers of the Activity Group (2011-2013) are:
Chair: Francisco Marcellán
Vice Chair: Jeffrey S. Geronimo
Program Director: Diego Dominici
Secretary: Peter Clarkson

The appointed officers are:
Diego Dominici, OP-SF NET co-editor and OP-SF Talk moderator
Martin Muldoon, OP-SF NET co-editor
Bonita Saunders, Webmaster and OP-SF Talk moderator