Topics:
1. Gabor Szegő Prize, call for nominations (reminder)
2. Munich Conference on Harmonic Analysis, Convolution Algebras, and Special Functions
3. Update on Patras Conference in memory of P. D. Siafarikas
4. Passing of Pablo Gonzalez Vera
5. Computer Algebra & Orthogonal Polynomials
6. Report on Santander Workshop on Numerical Software
7. Preprints in arXiv.org
8. About the Activity Group
9. Submitting contributions to OP-SF NET and SIAM-OPSF (OP-SF Talk)

Calendar of Events:

July 15 - 20, 2012
http://jja.ujaen.es 19.2 #3

September 3-7, 2012
International Conference on Differential Equations, Difference Equations and Special Functions in memory of Professor Panayiotis D. Siafarikas, Patras, Greece. 19.1 #4 19.4 #3
http://www.icddesf.upatras.gr/

September 10-14, 2012
Conference on "Harmonic Analysis, Convolution Algebras, and Special Functions", Munich, Germany 19.4 #2
http://www.helmholtz-muenchen.de/en/ibb/hacas2012

September 19-25, 2012
10th International Conference of Numerical Analysis and Applied Mathematics, Kos, Greece
http://www.icnaam.org/
October 27-28, 2012
American Mathematical Society, Western Section Meeting, Tucson AZ, including a Special Session on ‘Special Functions and Orthogonal Polynomials" organized by Diego Dominici, Tim Huber and Robert Maier.
http://www.ams.org/meetings/sectional/2203_program.html

November 5-7, 2012
Ramanujan 125 - A conference to commemorate the 125th anniversary of Ramanujan's birth, Gainesville FL, USA
http://www.math.ufl.edu/~fgarvan/ramanujan125.html

March 25-2, 2013
12th International Symposium on Orthogonal Polynomials, Special Functions and Applications (OPSFA-12), Sousse, Tunisia
http://matematicas.uc3m.es/index.php/seminarios/intern-meet-menu/12th-opsfa

February 20-21, 2013
Conference on Special Functions and Orthogonal Polynomials, Riyadh, Saudi Arabia
http://spconf.ksu.edu.sa/node/69

June 12-15, 2013
The Third International Conference Nonlinear Waves --- Theory and Applications, Beijing, China
http://lsec.cc.ac.cn/~icnwtas3/

July 1-5, 2013
"Special Functions and Orthogonal Polynomials" The 6th Pacific RIM Conference on Mathematics, Sapporo City, Japan
http://www.math.sci.hokudai.ac.jp/sympo/130701/sessions.html

July 1-6, 2013
Erdős Centennial Conference, Budapest, Hungary
http://www.renyi.hu/conferences/erdos100/

July 8-12, 2013
SIAM Annual Meeting, San Diego, California, USA (including OPSF “track”)
http://www.siam.org/meetings/an13/
[This was circulated to SIAM-OPSF on June 19, 2012. The submission information is changed from that in our May 15 issue.]

As was already communicated in OP-SF NET of May 15, 2012, nominations can be submitted now for the second award of the Gábor Szegő Prize. Read the details at

http://www.siam.org/prizes/nominations/nom_siag_szego.php

The prize will be awarded to an early-career researcher for outstanding research contributions in the area of orthogonal polynomials and special functions. Candidates should have at most 10 years (full time equivalent) of involvement in mathematics since PhD at the award date, allowing for breaks in continuity.

The selection committee consists of

Kathy Driver
Charles Dunkl
Tom H. Koornwinder
Francisco Marcellán (Chair)
Walter Van Assche

CHANGED SUBMISSION ADDRESS

Nominations should be sent with attachments to szego_prize@siam.org by September 15, 2012. (This is different from what was written in OP-SF NET of May 15, 2012.) Preferably also send a copy of the submission to the chair of the selection committee <pacomarc@ing.uc3m.es>.

A valid nomination requires 1.) A letter of nomination signed by two members of the SIAG/OPSF and 2.) the nominee’s CV. The letter should indicate 3.) the paper(s) cited for the work being recognized, explain the significance of the work, and (in the case of multiple authors) indicate the contribution of the nominee.

If you are not a member of SIAM/OPSF and know a suitable candidate for the prize, but have difficulty finding two SIAM/OPSF members willing to sign the nomination, please contact one of the members of the selection committee for suggestions about names of members.
From: Michael Voit  voit@mathematik.tu-dortmund.de
Subject: Munich Conference on Harmonic Analysis, Convolution Algebras, and Special Functions

There will be a conference on "Harmonic Analysis, Convolution Algebras, and Special Functions" at the Technische Universität München (Munich, Germany, Campus Garching), September 10 - 14, 2012.

The aim of the conference is to bring together a wide variety of researchers with an interest in Harmonic Analysis and Special Functions.

Confirmed plenary speakers will be Philippe Bougerol, Charles Dunkl, Herbert Heyer, Tom Koornwinder, Krzystof Stempak, Ryszard Szwarc and Yuan Xu.

More details can be found on the home page

http://www.helmholtz-muenchen.de/en/ibb/hacas2012

We still have limited space for additional participants and talks.
If you are interested, you can register for the conference under the home page above.
This home page will be updated regularly.
The length of the talks will be between 25 and 50 minutes.

If you have any queries, please feel free to contact one of the organizers:

For general questions:
Rupert Lasser:  lasser@helmholtz-muenchen.de
Margit Roesler: roesler@math.uni-paderborn.de
Michael Voit:  voit@mathematik.tu-dortmund.de

For local organization (accommodation, local transportation):
Josef Obermaier: josef.obermaier@helmholtz-muenchen.de (until end of August)
Andreas Weinmann: andreas.weinmann@helmholtz-muenchen.de

Please feel free to distribute this mail also to other possibly interested colleagues.
Conference on Differential Equations, Difference Equations and Special Functions
In memory of Professor Panayiotis D. Siafarikas

This was announced in OP-SF NET 19.1, #4. There are some changes in the list of speakers. Here is the updated list:

Plenary Speakers:
• Dimitar Dimitrov (Universidad Estadual Paulista, Brazil)
• John R. Graef (University of Tennessee at Chattanooga, U.S.A.)
• Alex Himonas (University of Notre Dame, USA)
• Javier Segura (University of Cantabria, Spain)

Invited Speakers:
• Árpád Baricz (Babeș-Bolyai University, Romania)
• Zuzana Došlá (Masaryk University, Czech Republic)
• Kathy Driver (University of Cape Town, South Africa)
• István Győri (University of Pannonia, Hungary)
• Mihály Pituk (University of Pannonia, Hungary)
• Luis Velazquez (University of Zaragoza, Spain)

Other talks will include "Professor Siafarikas and his work" by Evangelos Ifantis, University of Patras.

For more information, see the conference web site:
http://www.icddesf.upatras.gr/

I regret to announce that Pablo Gonzalez Vera, Professor at Universidad de La Laguna (ULL), Canary Islands, Spain, passed away early on the morning Wednesday, July 11 at the age of 57.

Pablo was the leader of the team on rational orthogonal functions, numerical integration and polynomial and rational approximation based at ULL. He was coauthor (with A. Bultheel, E. Hendriksen and O. Njåstad) of the monograph Orthogonal Rational Functions, Cambridge Monographs on Applied and
Computational Mathematics, Cambridge University Press 1999, the main reference work on this topic with 111 citations. Pablo is listed in MathSciNet as an author of 157 papers and monographs. He was the advisor of many PhD students in ULL and contributed to the growth and expansion of the above topics in Spain and abroad.

I shared not only his passion for Mathematics but also as a runner. In many meetings, Pablo was my companion in training for long distance races. He was a supporter of Barcelona FC and I recall a night in Trondheim (together with Leuven, one of Pablo’s favourite places) enjoying a final game of the Spanish Cup won by Barcelona FC. Walter van Assche and Guillermo Lopez Lagomasino also witnessed Pablo’s joy with this sport success. A bottle of Chablis was opened…. and finished to celebrate it.

Our sympathies go to Pablo’s wife Rosa, to their children Laura and Jorge, and to all his friends.

Topic #5  --------  OP-SF NET 19.4  --------  July 15, 2012

From: Wolfram Koepf  koepf@mathematik.uni-kassel.de
Subject: Computer Algebra & Orthogonal Polynomials

"CAOP - Computer Algebra & Orthogonal Polynomials" is a web tool for calculating formulas for orthogonal polynomials belonging to the Askey-Wilson scheme using Maple. With the present version which is available on the site http://www.caop.org/
users can compute recurrence, differential and difference equations, without having Maple installed on their own computer. It is also possible to multiply the polynomial family by a scaling function, to change the argument and to give values to the parameters before doing the calculations.

All computations in CAOP are performed by calling procedures either from hsum15 ("Hypergeometric Summation") or qsum15 ("q-Hypergeometric Summation") by Wolfram Koepf, University of Kassel, which are part of the book Hypergeometric Summation, Vieweg, Braunschweig/Wiesbaden, 1998.

The implementation of CAOP was originally done by René Swarttouw as part of the Askey-Wilson Scheme Project performed at RIACA in Eindhoven in 2004. The present site http://www.caop.org/ is a completely revised version of this project which has been done by Torsten Sprenger under supervision of Wolfram Koepf in 2012 and is maintained by Wolfram Koepf at the University of Kassel.
Numerical Software: Design, Analysis and Verification, 
Santander, Spain, July 4-6 2012. 
Local organizers: Amparo Gil and Javier Segura of the 
Universidad de Cantabria, Santander. 

This workshop was attended by 21 participants and organized in association 
with the 2012 meeting of the IFIP working group in Santander (2-3 July). 

There were three lectures on software aspects for special functions. Annie Cuyt 
(Antwerp), presented a talk “Validated Evaluation of Special Mathematical 
Functions”. It was an overview of the Antwerp project with Franky Backeljauw, 
Stefan Becuwe, Joris van Deun, and others, in which reliable and high-precision 
algorithms for a class of special functions are considered, by using continued 
fractions and series expansions. 

Daniel Lozier (NIST) discussed a new NIST initiative (together with the 
Antwerp group and other academic colleagues) in his talk “DLMF tables: A 
New Source of Data for Mathematical Software Developers”. The aim is to 
produce a system for generating on demand provably correct comparison 
values of mathematical functions. This system will be incorporated into a 

Together with Amparo Gil and Javier Segura, I presented a talk "Recent 
Software Developments for Special Functions in the Santander-Amsterdam 
Project", in which our way of working, our past activities (from 1997), 
and our future plans were discussed. 

There was a cluster of talks on interval analysis, floating point arithmetic, and 
accurate computations by Nathalie Revol and Jean-Michel Muller (ENS Lyon, 
France), Javier Bruguera (Santiago de Compostela, Spain), and Philippe Langlois 
(Perpignan, France). Other lectures were on software aspects for differential 
equations, linear algebra, and finite element methods. 

We look back at an interesting workshop, with nice extras organized by 
Amparo and Javier (guided visits to Santander, to the Altamira cave 
reproduction, to Santillana del Mar, the City Council reception) and the 
ever-present Spanish hospitality.
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 May and June 2012.

http://arxiv.org/abs/1205.1453  
An asymptotic formula of the divergent bilateral basic hypergeometric series  
Takeshi Morita

http://arxiv.org/abs/1205.2103  
First order non-homogeneous q-difference equation for Stieltjes function characterizing q-orthogonal polynomials  
J. Arvesú, A. Soria-Lorente

http://arxiv.org/abs/1205.2458  
A method for deriving hypergeometric and related identities from the $H^2$ Hardy norm of conformal maps  
Greg Markowsky

http://arxiv.org/abs/1205.6706  
π and other formulae implied by hypergeometric summation theorems  
Yong Sup Kim, Xiaoxia Wang, Arjun K. Rathie

http://arxiv.org/abs/1206.0350  
A new generalization of generalized hypergeometric functions  
Arjun K. Rathie

http://arxiv.org/abs/1206.4544  
The Laplace equation for the exterior of the Hankel contour and novel identities for hypergeometric functions  
A.S. Fokas, M.L. Glasser

http://arxiv.org/abs/1205.5085  
Classical and Sobolev Orthogonality of the Nonclassical Jacobi Polynomials with Parameters $\alpha=\beta=-1$  
Andrea Bruder, Lance Littlejohn

http://arxiv.org/abs/1205.5860  
Quasi-Hermitian Hamiltonians associated with exceptional orthogonal polynomials  
Bikashkali Midya
http://arxiv.org/abs/1205.6353
Coherent Orthogonal Polynomials
E Celeghini, Mariano A del Olmo

http://arxiv.org/abs/1206.4737
Plancherel_Rotach Asymptotics for q-Orthogonal Polynomials
Mourad E. H. Ismail, Xin Li

http://arxiv.org/abs/1206.4785
Spectral decomposition and matrix-valued orthogonal polynomials
Wolter Groenevelt, Mourad E. H. Ismail, Erik Koelink

http://arxiv.org/abs/1206.4899
The Kontorovich-Lebedev transform as a map between $d$-orthogonal polynomials
Ana F. Loureiro, S. Yakubovich

http://arxiv.org/abs/1205.6547
Hermite polynomials related to Genocchi, Euler and Bernstein polynomials
Serkan Araci, Jong Jin Seo, Mehmet Acikgoz

http://arxiv.org/abs/1205.6590
A note on the Frobenius-Euler numbers and polynomials associated with Bernstein polynomials
Serkan Araci, Mehmet Acikgoz

http://arxiv.org/abs/1205.0260
Littlewood Polynomials with Small $L^4$ Norm
Jonathan Jedwab, Daniel J. Katz, Kai-Uwe Schmidt

http://arxiv.org/abs/1205.0305
Branden's Conjectures on the Boros-Moll Polynomials
William Y. C. Chen, Donna Q. J. Dou, Arthur L. B. Yang

http://arxiv.org/abs/1205.0593
Macdonald polynomials as characters of Cherednik algebra modules
Stephen Griffeth

http://arxiv.org/abs/1205.0846
V. Markov's problem for monotone polynomials
Oleksiy Klurman

http://arxiv.org/abs/1205.1933
Power series with positive coefficients arising from the characteristic polynomials of positive matrices
Thomas J. Laffey, Raphael Loewy, Helena Šmigoc

http://arxiv.org/abs/1205.4215
The Bannai-Ito polynomials as Racah coefficients of the $sl_{-1}(2)$ algebra
Vincent X. Genest, Luc Vinet, Alexei Zhedanov
http://arxiv.org/abs/1205.5383
q-Chebyshev polynomials
Johann Cigler

http://arxiv.org/abs/1205.5398
Fibonacci Sequence, Recurrence Relations, Discrete Probability Distributions and Linear Convolution
Arulalan Rajan, R. Vittal Rao, Ashok Rao, H. S. Jamadagni

http://arxiv.org/abs/1205.6242
Polynomials with only real zeros and the Eulerian polynomials of type D
Shi-Mei Ma

http://arxiv.org/abs/1206.6967
Matrix Polynomials with Specified Eigenvalues
Michael Karow, Emre Mengi

http://arxiv.org/abs/1206.2988
Generalised Heine-Stieltjes and Van Vleck polynomials associated with degenerate, integrable BCS models
Ian Marquette, Jon Links

http://arxiv.org/abs/1206.1526
Fejér-Riesz factorizations and the structure of bivariate polynomials orthogonal on the bi-circle
Jeffrey S. Geronimo, Plamen Iliev

http://arxiv.org/abs/1206.3495
On Mittag-Leffler function and associated polynomials
D. Babusci, G. Dattoli, K. Górska

http://arxiv.org/abs/1206.3632
Locating the eigenvalues of matrix polynomials
Dario A. Bini, Vanni Noferini, Meisam Sharify

http://arxiv.org/abs/1206.5371
A note on Barker polynomials
Peter Borwein, Tamas Erdelyi

http://arxiv.org/abs/1206.5433
On the families of q-Euler numbers and polynomials and their applications
Serkan Araci, Mehmet Acikgoz, Hassan Jolany

http://arxiv.org/abs/1205.7037
-1 Krall-Jacobi Polynomials
Luc Vinet, Guo-Fu Yu, Alexei Zhedanov
http://arxiv.org/abs/1205.1112
A function Class of strictly positive definite and logarithmically completely monotonic functions related to the modified Bessel functions
Jamel El Kamel, Khaled Mehrez

http://arxiv.org/abs/1206.4814
Log-concavity for series in reciprocal gamma functions and applications
S. I. Kalmykov, D. B. Karp

Identities for the Hurwitz zeta function, Gamma function, and L-functions
Michael O. Rubinstein

http://arxiv.org/abs/1205.1696
Galois theories for $q$-difference equations: comparison theorems
Lucia Di Vizio, Charlotte Hardouin

http://arxiv.org/abs/1205.5455
How to prove Ramanujan's $q$-continued fractions
Gaurav Bhatnagar

http://arxiv.org/abs/1205.0037
On Mordell-Tornheim sums and multiple zeta values
David M. Bradley, Xia Zhou

http://arxiv.org/abs/1205.0303
A Central Limit Theorem for the Zeros of the Zeta Function
Brad Rodgers

http://arxiv.org/abs/1205.0609
Depth reduction of a class of Witten zeta functions
David M. Bradley, Tianxin Cai, Xia Zhou

http://arxiv.org/abs/1205.0636
A Necessary Condition for a Nontrivial Zero of the Riemann Zeta Function via the Polylogarithmic Function
Lazhar Fekih-Ahmed (ENIT)

http://arxiv.org/abs/1205.2161
On the higher derivatives of $Z(t)$ associated with the Riemann Zeta-Function
Kaneaki Matsuoka

http://arxiv.org/abs/1206.1801
On an inequality for the Riemann zeta-function in the critical strip
Sadegh Nazardonyavi, Semyon Yakubovich

http://arxiv.org/abs/1205.2101
Riemann-Hilbert Approach to the Six-Vertex Model
Pavel Bleher, Karl Liechty
http://arxiv.org/abs/1205.5604
Nonlinear steepest descent and the numerical solution of Riemann-Hilbert problems
Sheehan Olver, Thomas Trogdon

http://arxiv.org/abs/1206.1166
Integral and series transformations via Ramanujan's identities and Salem's type equivalences to the Riemann hypothesis
Semyon Yakubovich

http://arxiv.org/abs/1206.2435
Ramanujan's \(_1\psi_1\) summation
S. Ole Warnaar

http://arxiv.org/abs/1205.3485
Generalized modular forms including the weak Maass forms, the Ramanujan's Theta functions and the Tau function
Christian Pierre

Ramanujan series upside-down
Jesús Guillera, Mathew Rogers

http://arxiv.org/abs/1206.4456
Discrete Painleve II equation over finite fields
Masataka Kanki, Jun Mada, K. M. Tamizhmani, Tetsuji Tokihiro

http://arxiv.org/abs/1206.5963
Symmetries of quantum Lax equations for the Painlevé equations
Hajime Nagoya, Yasuhiko Yamada

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Topic #8 ------------ OP-SF NET 19.4 ------------ July 15, 2012

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:

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/

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 or to see a link the archive of all messages, go to http://lists.siam.org/mailman/listinfo/siam-OPSF and follow the instructions under the sub-heading “Subscribing to SIAM-OPSF”. To contribute an item to the discussion, send email to siam-opsf@siam.org. 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. In addition, there is the possibility of reduced rate membership for the members of several societies with which SIAM has a reciprocity agreement; see http://www.siam.org/membership/individual/reciprocal.php
For current information on SIAM and Activity Group membership, contact:
Society for Industrial and Applied Mathematics
3600 University City Science Center
Philadelphia, PA 19104-2688 USA
phone: +1-215-382-9800
e-mail: service@siam.org
WWW: http://www.siam.org
http://www.siam.org/membership/outreachmem.htm

Topic #9 -------- OP-SF NET 19.4 -------- July 15, 2012

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 19.5 should be sent by September 1, 2012.

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: Jeff 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