## O P - S F N E T - Volume 21, Number 6 - November 15, 2014

Editors:<br>Diego Dominic<br>Martin Muldoon<br>dominicd@newpaltz.edu muldoon@yorku.ca

The Electronic News Net of the
SIAM Activity Group on Orthogonal Polynomials and Special Functions
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## Calendar of Events:

## December 1-5, 2014

International Conference on Applied Mathematics in honour of Professor
Roderick S. C. Wong's $70^{\text {th }}$ Birthday, City University of Hong Kong http://www6.cityu.edu.hk/rcms/icam2014/

## December 11-20, 2014

Foundations of Computational Mathematics, Montevideo, Uruguay (including workshops on Approximation Theory and on Special Functions and Orthogonal Polynomials)
http://www.fing.edu.uy/~jana/www2/focm_2014.html

## March 3-6, 2015

Conference on Representation Theory, Special Functions and Painlevé Equations, RIMS, Kyoto, Japan http://www2.kobe-u.ac.jp/~mhsaito/rims 1 503/

May 10-12, 2015
International Conference on Orthogonal Polynomials and q-Series, celebrating the $70^{\text {th }}$ birthday of Mourad Ismail, Orlando, Florida, USA http://math.cos.ucf.edu/opqs15/opqs2015.html

June 1-5, 2015
13th International Symposium on Orthogonal Polynomials, Special Functions and Applications (OPSFA13), Gaithersburg, Maryland, USA http://www.siam.org/meetings/opsfa13/

June 8-12, 2015
V Iberoamerican Workshop on Orthogonal Polynomials, Mexico City http://paginas.matem.unam.mx/eibpoa2015/index.php/en/

## August 9-14, 2015

Orthogonal and Multiple Orthogonal Polynomials, Oaxaca, Mexico http://www.birs.ca/events/2015/5-day-workshops/15w5022

## August 10-14, 2015

ICIAM 2015 (International Congress on Industrial and Applied Mathematics), Beijing, China http://www.iciam2015.cn/

## Topic \#1 --------- OP-SF NET 21.6 -------- November 15, 2014

From: Walter Van Assche Walter.VanAssche@wis.kuleuven.be Subject: Gábor Szegő Prize

The deadline for the Gábor Szegő prize will be extended by 1 month to December 1, 2014.

The Gábor Szegő Prize will be awarded by SIAG/OPSF at OPSFA 2015. OPSFA 2015 - the 13th International Symposium on Orthogonal Polynomials, Special Functions, and Applications - will be held June 1-5, 2015 , at National Institute of Standards and Technology (NIST) in Gaithersburg, Maryland, USA.

The Gábor Szegő Prize is awarded biennially to an early career researcher for outstanding research contributions in the area of orthogonal polynomials and special functions. The recipient will be requested to give a talk at the conference.

The contributions must be contained in a paper or papers published in English in peer-reviewed journals. The prize will be awarded to a researcher who has at most 10 years of involvement in mathematics since PhD or equivalent degree.

Nominations should be addressed to Professor Walter Van Assche, Chair, Gábor Szegő Prize Committee and sent with attachments to szego_prize@siam.org by December 1, 2014. 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.

## Topic \#2 --------- OP-SF NET 21.6 -------- November 15, 2014

From: Walter Van Assche Walter.VanAssche@wis.kuleuven.be Subject: Report on Mourad Ismail conference

The latest in the series of conferences honouring significant birthdays was that for Mourad Ismail. His 70th birthday was celebrated at an international conference Orthogonal Polynomials, Integrable Systems and Their Applications sponsored by Shanghai Jiao Tong University and Shaoxing University. The first two days (October 25-26, 2014) were at the Shanghai Jiao Tong University. On October 27, the participants were put on a bus for a trip of 2.5 hours to Shaoxing, a city in the province of Zhejiang to the south-west of Shanghai. That afternoon there was an excursion to the house of Lu Xun (1881--1936), a leading figure of modern Chinese literature, and to a garden of calligraphy. The next two days (October 28-29) the conference was held at the Shaoxing hotel.

The conference was focused on some areas in which Mourad Ismail has had strong influence and interest: orthogonal polynomials (his book on Classical and Quantum Orthogonal Polynomials in One Variable should be on the desk of anyone reading this Newsletter), integrable systems and their applications. Special functions were not mentioned in the conference title but Mourad is definitely also an expert in this field, in particular $q$-theory and combinatorics. All talks were treated in a similar way: everyone was allowed to talk for 40 minutes and 5 minutes were reserved for questions, hence no plenary talks and no parallel sessions. This has the advantage that you don't have to miss any of the talks because another interesting talk is going on in a parallel session. It has the disadvantage that you don't have any excuse to skip a talk (for some sightseeing for instance).

Let me mention some of the talks that I liked (with the risk of not being objective and with my apologies to those I am not mentioning explicitly). Alberto Grünbaum talked about quantum walks in his usual lucid style, pointing out a paper by Ismail (with H. Carteret and B. Richmond) from 2003 on Three routes to the exact asymptotics for the one-dimensional quantum walk\} (J. Phys. A 36, (2003), 8775-8795). Nalini Joshi once more gave a wonderful talk on Painlevé equations (continuous and discrete) and their asymptotics, and Edmund Chiang talked about Nevanlinna theory based on the Askey-Wilson operator.

On the second day, Pierre van Moerbeke explained how domino tiling and random matrices contain a lot of beautiful mathematics involving special functions and discrete integrable systems. I was also very much pleased with the talks of Dan Dai and Yu-Qiu Zhao about Plancherel-Rotach asymptotics and orthogonal polynomials with singular weights. They both used the Riemann-

Hilbert approach that, during the past few decades, has turned out to be so useful for obtaining asymptotic results for orthogonal polynomials.

In Shaoxing I liked the talk of Jacek Szmigielski a lot, where he combined nonsmooth waves (peakons), integrability, orthogonal and bi-orthogonal polynomials into a very tasteful exposition. I would like to mention here that Szmigielski and Beals have written a Gentle Introduction to Meijer G-functions in Notices Amer. Math. Soc. 60 (2013), 866-872, which I strongly recommend to all the members of our SIAG. Xiangke Chang gave some examples about the relationship between integrable systems (discrete, semi-discrete and continuous) and orthogonal polynomials, thereby touching upon the main themes of this international conference. Guillermo López Lagomasino explained various properties of Nikishin systems and in particular the convergence of Hermite-Padé approximants to rational perturbations of such systems. On the last day of the conference, Luc Vinet introduced the audience to Bannai-Ito polynomials and the related algebra with many applications in mathematical physics. These orthogonal polynomials are somewhat hidden in the Askey table since they are $q=-1$ limits of the $q$-Racah polynomials, but they really deserve to be studied as they are, and not as limits of $q$-Racah polynomials. Dennis Stanton gave a talk with one theorem about a general class of basic hypergeometric polynomials for which he gave orthogonality relations (extending the orthogonality relations for Askey-Wilson polynomials). The last talk that I want to mention explicitly is that of Vincent Genest since it involved multivariate orthogonal polynomials, with various group theoretical interpretations and some applications.

The conference was quite successful and the organizers (Xing-Biao Hu, Sen-Yue Lou, Mikhail Tyaglov, Guo-Fu Yu, Jun Yu, Ruiming Zhang and Zuo-Nong Zhu) succeeded in getting together excellent speakers who were able to present their recent work in areas of interest to Mourad Ismail. Mourad's influence and his supervision and collaboration with many researchers, not only established ones but especially many starting people and people from all over the world, was pointed out by many of the participants at the banquet. Thanks, Mourad, for being such a good person, scientist and friend. You really deserved being celebrated at an international conference among your peers.

Topic \#3 --------- OP-SF NET 21.6 -------- November 15, 2014
From: Martin Muldoon muldoon@yorku.ca
Subject: Peter Szego 1925-2014
Peter Szego, a long-time resident of San Jose, California, died on September 28, 2014. Peter was the son of Gabor Szegő (1895-1985). He taught at Rice University and at the University of Santa Clara but also worked in industry (Ampex Corporation), political strategy and community service in the state of California. He had a long collaboration with Lee Lorch, much of it having to do with Bessel functions and their zeros, continuing into the 21 st century.

For further information, see:
http://www.legacy.com/obituaries/mercurynews/obituary.aspx?pid=172677524

## Topic \#4 --------- OP-SF NET 21.6 -------- November 15, 2014

From: OP-SF NET Editors
Subject: Fellows of the AMS
The American Mathematical Society has published its 2015 List of Fellows containing 63 names. See http://www.ams.org/profession/ams-fellows/new-fellows

Among the new Fellows related to the interests of members of our Activity are:
Jonathan Michael Borwein, University of Newcastle (Australia)
"For contributions to nonsmooth analysis and classical analysis as well as experimental mathematics and visualization of mathematics."

Mourad E. H. Ismail, King Saud University and University of Central Florida, "For contributions to classical analysis and special function theory, as well as service to the community."

Willard Miller, Jr., University of Minnesota, Twin Cities, "For contributions to applied mathematics, especially special function theory, and for service to the mathematical community."

Congratulations to these and all the new Fellows!

## Topic \#5 --------- OP-SF NET 21.6 -------- November 15, 2014

From: OP-SF NET Editors
Subject: Walter Gautschi - Selected Works
Claude Brezinski and Ahmed Saleh, eds., Walter Gautschi: Selected Works with Commentaries
3 vols, Birkhäuser, 2014.
ISBN 978-1-4614-7131-8
Available as hard-cover and as eBook.
Further information: www.springer.com/birkhauser - search under "Gautschi".

Partial Contents:

Biography of Walter Gautschi - the editors
A Brief Summary of My Scientific Work and Highlights of My Career Walter Gautschi
Publications - Walter Gautschi

Commentaries on the papers in various areas:
Numerical Conditioning - Nicholas J. Higham
Special Functions - Javier Segura
Interpolation and Approximation - Miodrag M. Spalević
Orthogonal Polynomials on the Real Line - Gradimir V. Milovanović
Polynomials Orthogonal on the Semicircle -Lothar Reichel
Chebyshev Quadrature - Jaap Korevaar
Kronrod and Other Quadratures - Giovanni Monegato
Gauss-type Quadrature - Walter Van Assche
Linear Recurrence Relations - Lisa Lorentzen
Ordinary Differential Equations - John Butcher
Computer Algorithms and Software Packages - Gradimir V. Milovanović
History and Biography - Gerhard Wanner
Miscellanea - Martin J. Gander

Topic \#6 --------- OP-SF NET 21.6 -------- November 15, 2014
From: OP-SF NET Editors
Subject: Analysis and Applications: Frank Olver special issues
The three most recent issues of Analysis and Applications have been dedicated to the memory of Frank Olver, 1924-2013. They were edited by Nico Temme and Roderick Wong.

Here is the table of contents:
Vol. 12 No. 4 (July 2014)
A tribute to Frank Olver (1924-2013), M. Berry
In memoriam Frank W. J. Olver (1924-2013), R. Wong
Mathematics that has intrigued me, F. W. J. Olver
On the blow-up of solutions to the integrable modified Camassa-Holm equation, Y. Liu, P. J. Olver, C. Qu, S. Zhang

Change of variable formulas for regularizing slowly decaying and oscillatory Cauchy and Hilbert transforms, S. Olver

Olver's error bound methods applied to linear ordinary differential equations having a simple turning point, T. M. Dunster

The resurgence properties of the large-order asymptotics of the Hankel and Bessel functions, G. Nemes

Asymptotics of linear recurrences, $R$. Wong

Vol. 12 No. 5 (September 2014)
The radius of convexity of normalized Bessel functions of the first kind, Arpad Baricz and Robert Szasz

On a conjecture on sparse binomial-type polynomials by Brown, Dilcher and Manna, Wolfgang Gawronski and Thorsten Neuschel

Convergent and asymptotic expansions of solutions of second order differential equations with a large parameter, Chelo Ferreira, Jose L. Lopez and Ester Perez Sinusia

On the complex zeros of Airy and Bessel functions and those of their derivatives, Amparo Gil and Javier Segura

Zeros of pseudo-ultraspherical polynomials, Kathy Driver and Martin E. Muldoon
Quadratic algebra contractions and 2 nd order superintegrable systems, Willard Miller and Ernest G. Kalnins

Vol. 12 No. 6 (November 2014)
Expansions for a Fundamental Solution of Laplace's Equation on R3 in 5-cyclidic harmonics, Howard Cohl and Hans Volkmer

Zero distribution of polynomials satisfying a differential-difference equation, Diego Dominici and Walter Van Assche

Uniform asymptotic expansions for hypergeometric functions with large parameters IV, Sarah Farid Khwaja and Adri B. Olde Daalhuis

On the equivalence of two fundamental theta identities,Tom H. Koornwinder
Global asymptotics of the Szegö-Askey Polynomials, Y. Lin and R. Wong

Topic \#7 --------- OP-SF NET 21.6 -------- November 15, 2014
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 September and October 2014.
http://arxiv.org/abs/1409.1498
Complete Monotonicity of classical theta functions and applications
A. Raouf Chouikha
http://arxiv.org/abs/1409.0570
Multivariate orthogonal polynomial and integrable systems
Gerardo Ariznabarreta, Manuel Mañas
http://arxiv.org/abs/1409.1620
Orthogonal Polynomials for Seminonparametric Instrumental Variables Model Yevgeniy Kovchegov, Nese Yildiz
http://arxiv.org/abs/1409.4697
Higher order recurrence relation for exceptional Charlier, Meixner, Hermite and Laguerre orthogonal polynomials
Antonio J. Durán
http://arxiv.org/abs/1409.4715
Krawtchouk transforms and Convolutions
Philip Feinsilver, René Schott
http://arxiv.org/abs/1409.0999
DARBOUX partners of pseudoscalar Dirac potentials associated with exceptional orthogonal polynomials
Axel Schulze-Halberg, Barnana Roy
http://arxiv.org/abs/1410.0131
Some observations about super Catalan numbers, corresponding orthogonal polynomials, and their $q$-analogues
Johann Cigler
http://arxiv.org/abs/1410.0183
A new recurrence formula for generic exceptional orthogonal polynomials Hiroshi Miki, Satoshi Tsujimoto
http://arxiv.org/abs/1410.1261
Strong asymptotics for the Pollaczek multiple orthogonal polynomials ensembles
A. I. Aptekarev, G. Lopez Lagomasino, A. Martinez-Finkelshtein
http://arxiv.org/abs/1410.1332
On 2D discrete Schrödinger operators associated with multiple orthogonal polynomials
Alexander I Aptekarev, Maxim Derevyagin, Walter Van Assche
http://arxiv.org/abs/1410.3948
Uniform asymptotics for discrete orthogonal polynomials on infinite nodes with an accumulation point
Xiao-Bo Wu, Yu Lin, Shuai-Xia Xu, Yu-Qiu Zhao
http://arxiv.org/abs/1410.4683
Orthogonal polynomials through the invariant theory of binary forms Pasquale Petrullo, Domenico Senato, Rosaria Simone
http://arxiv.org/abs/1410.6731
Markov processes, polynomial martingales and orthogonal polynomials Paweł J. Szabłowski
http://arxiv.org/abs/1410.8236
Recurrence Relations of the Multi-Indexed Orthogonal Polynomials: II Satoru Odake
http://arxiv.org/abs/1409.3071
Representations and inequalities for generalized hypergeometric functions Dmitrii Karp
http://arxiv.org/abs/1 409.4287
Non-symmetric basic hypergeometric polynomials and representation theory for confluent Cherednik algebras
Marta Mazzocco
http://arxiv.org/abs/1409.1075
Turán type inequalities for confluent hypergeometric functions of the second kind
Árpád Baricz, Saminathan Ponnusamy, Sanjeev Singh
http://arxiv.org/abs/1409.8527
A note on a hypergeometric transformation formula due to Slater with an application
Y. S. Kim, A. K. Rathie, R. B. Paris
http://arxiv.org/abs/1409.0235
Supersymmetry, shape invariance and the hypergeometric equation Ashok K. Das, Pushpa Kalauni
http://arxiv.org/abs/1410.3241
Extensions of the classical theorems for very well-poised hypergeometric functions
Yashoverdhan Vyas, Kalpana Fatawat
http://arxiv.org/abs/1410.5636
A new proof for a nonterminating "strange" hypergeometric evaluation of Gasper and Rahman
Chenying Wang, Xiaojing Chen
http://arxiv.org/abs/1410.6120
Proofs of some conjectures on monotonicity of ratios of Kummer, Gauss and generalized hypergeometric functions
Khaled Mehrez, Sergei M. Sitnik
http://arxiv.org/abs/1410.6921
Duality transformation formulas for multiple elliptic hypergeometric series of type \$BC\$
Yasushi Komori, Yasuho Masuda, Masatoshi Noumi
http://arxiv.org/abs/1409.4640
Distribution of zeros of polynomials with positive coefficients
Alexandre Eremenko, Walter Bergweiler
http://arxiv.org/abs/1409.4901
Admissibility condition for exceptional Laguerre polynomials
Antonio J. Durán, Mario Pérez
http://arxiv.org/abs/1409.6525
The $1 / k$-Eulerian polynomials and k-Stirling permutations
Shi-Mei Ma, Toufik Mansour
http://arxiv.org/abs/1409.3710
On properties of Tribonacci-Lucas polynomials
Hasan Kose, Nazmiye Yilmaz, Necati Taskara
http://arxiv.org/abs/1410.3908
Deformed Complex Hermite Polynomials
S. Twareque Ali, Mourad E. H. Ismail, Nurisya M. Shah
http://arxiv.org/abs/1410.4703
Spin lattices, state transfer and bivariate Krawtchouk polynomials
Vincent X. Genest, Hiroshi Miki, Luc Vinet, Alexei Zhedanov
http://arxiv.org/abs/1410.0549
Properties of the zeros of the polynomials belonging to the q-Askey scheme Oksana Bihun, Francesco Calogero
http://arxiv.org/abs/1410.0906
The Electrostatic Properties of Zeros of Exceptional Laguerre and Jacobi
Polynomials and stable interpolation
Á. P. Horváth
http://arxiv.org/abs/1410.2286
Discrete Entropy of Generalized Jacobi Polynomials
Andrei Martinez-Finkelshtein, Paul Nevai, Ana Peña
http://arxiv.org/abs/1410.2661
Asymptotic behaviour of some families of orthonormal polynomials and an associated Hilbert space
Aleksandar Ignjatovic
http://arxiv.org/abs/1410.2772
Variations of the Poincaré series for affine Weyl groups and $q$-analogues of Chebyshev polynomials
Eric Marberg, Graham White
http://arxiv.org/abs/1409.0293
Radii of starlikeness and convexity of some $\$ q \$$-Bessel functions
Árpád Baricz, Dimitar K. Dimitrov, István Mező
http://arxiv.org/abs/1409.3932
Padé interpolation to \$q-Painlevé equations
Hidehito Nagao
http://arxiv.org/abs/1410.2365
Twisted zastava and \$q\$-Whittaker functions
Alexander Braverman, Michael Finkelberg
http://arxiv.org/abs/1410.3674
Spectral types of linear \$q\$-difference equations and \$q\$-analog of middle convolution
Hidetaka Sakai, Masashi Yamaguchi
http://arxiv.org/abs/1410.5301
An overpartition analogue of the $\$ q \$$-binomial coefficients
Jehanne Dousse, Byungchan Kim
http://arxiv.org/abs/1410.7087
Bounds on Kronecker and \$q\$-binomial coefficients
Igor Pak, Greta Panova
http://arxiv.org/abs/1409.6413
Asymptotic formulas for the gamma function constructed by bivariate means Zhen-Hang Yang
http://arxiv.org/abs/1409.2971
A note on the zeros of the Digamma function and the derivative of the logBarnes function
István Mező
http://arxiv.org/abs/1410.8575
Expansions of the solutions of the biconfluent Heun equation in terms of incomplete Beta and Gamma functions
C. Leroy, Y. Pashayan-Leroy, A.M. Ishkhanyan
http://arxiv.org/abs/1409.4100
On the asymptotics of Bessel functions in the Fresnel regime
Jhu Heitman, James Bremer, Vladimir Rokhlin, Bogdan Vioreanu
http://arxiv.org/abs/1410.3436
Inside the nature of squared Bessel process
Maciej Wiśniewolski
http://arxiv.org/abs/1410.4102
Asymptotic formulae for the Lommel and Bessel functions and their derivatives Nadezhda Aleksandrova
http://arxiv.org/abs/1410.5783
Differential subordinations and superordinations for generalized Bessel functions
Huda A. Al-Kharsani, Árpád Baricz, K.S. Nisar
http://arxiv.org/abs/1410.6266
Starlikeness of a cross-product of Bessel functions
Huda A. Al-Kharsani, Árpád Baricz, Tibor K. Pogány
http://arxiv.org/abs/1409.1166
The master Painlevé VI heat equation
Robert Conte (CMLA, ENS Cachan, France), Ivan Dornic (SPEC, CEA-Saclay, France)
http://arxiv.org/abs/1410.2649
Painleve Classification of Polynomial Ordinary Differential Equations of Arbitrary Order and Second Degree
Stanislav Sobolevsky
http://arxiv.org/abs/1410.3338
Location of Poles for the Hastings-McLeod Solution to the Second Painlevé Equation
Min Huang, Shuai-Xia Xu, Lun Zhang
http://arxiv.org/abs/1410.4976
Isomonodromic deformation of Lamé connections, Painlevé VI equation and Okamoto symetry
Frank Loray
http://arxiv.org/abs/1410.4965
A positivity property of a Quantum Anharmonic Oscillator suggested by the BMV conjecture
Victor Katsnelson
http://arxiv.org/abs/1409.6035
Lower bounds for the maximum of the Riemann zeta function along vertical lines
Christoph Aistleitner
http://arxiv.org/abs/1410.3635
Large gaps between consecutive zeros of the Riemann zeta-function. III H. M. Bui
http://arxiv.org/abs/1410.3926
Nonnegative trigonometric polynomials and a zero-free region for the Riemann zeta-function
Michael J. Mossinghoff, Timothy S. Trudgian
http://arxiv.org/abs/1410.8312
Ramanujan Series for Epstein Zeta Functions
Yajun Zhou
http://arxiv.org/abs/1410.8592
"Marvelous cancellations": T.J. Stieltjes' letters concerning the zeta function
Juan Marin
http://arxiv.org/abs/1409.5332
On the phenomena of constant curvature in the diffusion-orthogonal polynomials
Lev Soukhanov
http://arxiv.org/abs/1410.6731
Markov processes, polynomial martingales and orthogonal polynomials
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http://arxiv.org/abs/1410.0927
Starlikeness of Bessel functions and their derivatives
Árpád Baricz, Murat Çağlar, Erhan Deniz
http://arxiv.org/abs/1409.7561
Explicit Evaluations of Matrix-variate Gamma and Beta Integrals in the Real and Complex Cases
A.M. Mathai
http://arxiv.org/abs/1409.7559
Evaluation of Matrix-variate Gamma and Beta Integrals as Multiple Integrals and Kober Fractional Integral Operators in the Complex Matrix Variate Case A.M. Mathai
http://arxiv.org/abs/1410.6194 [pdf, other]
Stability analysis for linear heat conduction with memory kernels described by Gamma functions
Corrado Mascia
http://arxiv.org/abs/1410.5043
On the integral representations of $\$|\Gamma(z)| \wedge 2 \$$ and its Fourier transform Nicolas Privault
http://arxiv.org/abs/1409.4053
Discrete integrable systems generated by Hermite-Padé approximants
Alexander I. Aptekarev, Maxim Derevyagin, Walter Van Assche
http://arxiv.org/abs/1410.2162
Mixed norm estimates for the Cesàro means associated with Dunkl--Hermite expansions
Pradeep Boggarapu, L. Roncal, S. Thangavelu
http://arxiv.org/abs/1410.4112
Gegenbauer-Chebyshev Integrals and Radon Transforms
Boris Rubin
http://arxiv.org/abs/1409.5394
Nearest neighbor spacing distributions for zeros of the real or imaginary part of the Riemann xi-function on vertical lines
Masatoshi Suzuki
http://arxiv.org/abs/1409.2988
Improvement of the theorem of Hardy-Littlewood on density of zeros of the function $\$ \zeta(1 / 2+i t) \$$
Jan Moser

Topic \#8 --------- OP-SF NET 21.6 -------- November 15, 2014
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 115 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: https://staff.fnwi.uva.nl/t.h.koornwinder/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:
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email: service@siam.org
WWW : http://www.siam.org
http://www.siam.org/membership/outreachmem.htm

## Topic \#9 --------- OP-SF NET 21.6 -------- November 15, 2014

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 22.1 should be sent by January 1, 2015.
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 (2014-2016) are:
Chair: Walter Van Assche
Vice Chair: Jeff Geronimo
Program Director: Diego Dominici
Secretary: Yuan Xu
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

