The John F. Kennedy Center for the Performing Arts

DAVID M. RUBENSTEIN, Chairman DEBORAH F. RUTTER. President

CONCERT HALL

Friday Evening, June 2, 2017, at 8:00

The Kennedy Center, with Artistic Advisor at Large Renée Fleming, and the National Institutes of Health in association with the National Endowment for the Arts

present

Sound Health in Concert: Music and the Mind with the National Symphony Orchestra

EDWIN OUTWATER, conductor

With performances and appearances by

DR. FRANCIS COLLINS RENÉE FLEMING BEN FOLDS DR. NINA KRAUS DR. DANIEL LEVITIN DR. CHARLES LIMB JUSSIE SMOLLETT

Support for Renee Fleming's initiatives at the Kennedy Center is provided by Robert E. Meyerhoff and Rheda Becker and Patrick G. and Shirley W. Ryan.

David and Alice Rubenstein are the Presenting Underwriters of the NSO.

The National Symphony Orchestra's Community Engagement Program is made possible through the generosity of Mrs. Irene Pollin.

Major support for NSO Sound Health is provided by Aetna and The Orlebeke Foundation.

Additional support for NSO Sound Health is provided by The Anne and Ronald Abramson Family Foundation, The Clark Charitable Foundation, the Foundation for Advanced Education in the Sciences, The Morris and Gwendolyn Cafritz Foundation, and Dr. Annette U. Rickel of the Annette Urso Rickel Foundation.

Patrons are requested to turn off cell phones and other electronic devices during performances. The taking of photographs and the use of recording equipment are not allowed in this auditorium.

LETTER TK

MEET THE CONDUCTOR



dwin Outwater is Director of Summer Concerts at the San Francisco Symphony (SFS), and was recently appointed Artistic Director of the Eastern Sierra Symphony, a summer festival in Mammoth Lakes, California. After a remarkable decade as Music Director of the Kitchener-Waterloo Symphony (KWS), he begins as their Conductor Laureate in 2017. Equally adept at interpreting canonical masterworks, premiering new commissions, and connecting audiences with repertoire beyond the mainstream, the American conductor is, as San Francisco Classical Voice notes, "headed for a top-tier future."

Outwater's final season as Music Director of the KWS continued their groundbreaking Intersections concerts, exploring the relationship between music and science in a collaboration with the Institute for Quantum Computing and cellist Johannes Moser. In his third as SFS Director of Summer Concerts, Outwater led led the orchestra in performances including Beethoven Symphony No. 9 and a multi-concert collaboration with jazz pianist Makoto Ozone. He also curated and conducted performances in the trailblazing series SoundBox in SFS's new nightclub-style performance space, the only guest artist to do so for three consecutive seasons.

Recent guest appearances featured returns to the New World and Chicago Symphonies, and the BBC National Orchestra of Wales. He also debuted with the Brussels Philharmonic, the Grant Park Festival, and the Montreux Jazz Festival, and appeared at the Kennedy Center in their new music series led by composer Mason Bates. Outwater has conducted the New York and Los Angeles Philharmonic Orchestras, as well as symphony orchestras including Baltimore, Chicago, Detroit, Houston, New World, and Seattle. In Canada he has led the National Arts Centre Orchestra and the symphonies of Toronto, Calgary, Edmonton, Winnipeg, and Victoria. International appearances include the Tokyo Metropolitan Orchestra, Tokyo Symphony, Kyoto Symphony, BBCNOW, the New Zealand Symphony, Adelaide Symphony, Malmö Symphony, Nordwestdeutsche Philharmonie, Mexico City Philharmonic, Orquesta Sinfónica de Xalapa, and Hong Kong Sinfonietta.

A native of Santa Monica, California, Edwin Outwater graduated cum laude in English literature from Harvard University, where he was music director of the Bach Society Orchestra and the a cappella group Harvard Din and Tonics, and wrote the music for the 145th annual production of the Hasty Pudding Theatricals. He received his master's in conducting from UC Santa Barbara, where he studied with Heiichiro Ohyama and Paul Polivnick, besides studying music theory and composition with John Stewart, Joel Feigin, and Leonard Stein.



rancis S. Collins, M.D., Ph.D. was appointed the 16th Director of the National Institutes of Health (NIH) by President Barack Obama and was sworn in on August 17, 2009. In this role, he oversees the work of the largest supporter of biomedical research in the world, spanning the spectrum from basic to clinical research.

Dr. Collins is a physician-geneticist noted for his landmark discoveries of disease genes and his leadership of the international Human Genome Project, which culminated in April 2003 with the completion of a finished sequence of the human DNA instruction book. He served

as director of the National Human Genome Research Institute at NIH from 1993-2008.

Before coming to NIH, Dr. Collins was a Howard Hughes Medical Institute investigator at the University of Michigan. He is an elected member of the Institute of Medicine and the National Academy of Sciences, was awarded the Presidential Medal of Freedom in November 2007, and received the National Medal of Science in 2009.



Renée Fleming is one of the most acclaimed singers of our time. In 2016, she was named an Artistic Advisor at Large for the John F. Kennedy Center for the Performing Arts, where she participates in a variety of projects. In 2013, President Obama awarded her America's highest honor for an artist, the National Medal of Arts. She brought her voice to a vast new audience in 2014, as the first classical artist ever to sing the National Anthem at the Super Bowl. Winner of the 2013 Grammy Award for Best Classical Vocal Solo, she has sung for momentous occasions from the Nobel Peace Prize ceremony to the Diamond Jubilee Concert for Queen Elizabeth II at Buckingham Palace. An earlier distinction came in 2008 when she became the first

woman in the 125-year history of the Metropolitan Opera to solo headline an opening night gala.

Renée's 2017 tour schedule includes concerts in New York, London, Vienna, Paris, Tokyo, and Beijing. This spring, she appeared at the Metropolitan Opera as the Marschallin in a new production of Strauss's *Der Rosenkavalier*, having premiered this production in December at the Royal Opera, Covent Garden. She is soon to be heard as the singing voice of Roxane, played by Julianne Moore, in the film of Ann Patchett's best-seller *Bel Canto*.

Decca released Renée's most recent album *Distant Light* in January. Recipient of 14 Grammy nominations to date, she has recorded everything from complete operas and song recitals indie rock, jazz, and the movie soundtrack of *The Lord of the Rings: The Return of the King*.

Among her awards are the Fulbright Lifetime Achievement Medal, Germany's Cross of the Order of Merit, France's Chevalier de la Légion d'Honneur, and honorary doctorates from Harvard University, the University of Pennsylvania, Duke University, Carnegie Mellon University, the Eastman School of Music, and The Juilliard School. www.reneefleming.com.



Den Folds is widely regarded as one of the major music influencers of our generation. He's spent more than a decade sharing the stage with some of the world's greatest symphony orchestras—from Sydney, Australia to the Kennedy Center, performing his pop hits and his critically acclaimed concerto for Piano and Orchestra.

For five seasons he was a judge on the popular NBC series *The Sing Off*, which catapulted the art of a cappella into the national spotlight, and helped launch the careers of numerous a cappella groups.

Throughout his career, Folds has created an enormous body of genre-bending musical art that includes pop albums as the front man for Ben Folds Five, multiple solo rock albums, as well as unique collaborative records with artists from Sara Bareilles and Regina Spektor, to Weird Al and William Shatner. His most recent album is a blend of pop and classical original works, in part recorded with the revered classical sextet yMusic that soared to #1 on both the *Billboard* classical and classical crossover charts.

Throughout 2017, Folds will continue to pound pianos with cross country solo touring reminiscent of his earliest solo tour, where he defied skeptics by delivering a high energy rock performance using the intimacy of just a piano. His tour schedule will also include a series of orchestral performances where he will showcase his piano concerto and pop hits.

In addition to his self-described love of performing and making music "for humans," Folds is also an avid photographer, and is a member of the distinguished Sony Artisans of Imagery. Folds is also an advocate for music education and music therapy as a member of Artist Committee of the Americans For The Arts, and he serves as a member of the Board of Directors of the Nashville Symphony.



Nina Kraus, is Professor of Communication Sciences, Neurobiology, Otolaryngology, and Hugh Knowles Chair at Northwestern University. She is a scientist, inventor, and amateur musician who studies the biology of auditory learning. Through a series of innovative studies involving thousands of research participants from birth to age 90, her research has found that our lives in sound, for better (musicians, bilinguals) or worse (language disorders, aging, hearing loss), shape how we hear. Using the principles of neuroscience to improve human communication, she advocates for best practices in education, health, and social policy. www.brainvolts.northwestern.edu



Dr. Charles Limb is the Francis A. Sooy Professor of Otolaryngology-Head and Neck Surgery and the Chief of the Division of Otology, Neurotology and Skull Base Surgery at UC San Francisco. He is also the Director of the Douglas Grant Cochlear Implant Center at UCSF and holds a joint appointment in the Department of Neurosurgery. Dr. Limb received his undergraduate degree at Harvard University and medical degree at Yale University, followed by surgical residency at Johns Hopkins Hospital and research training at the National Institutes of Health. He was a faculty member at Johns Hopkins Hospital and the Peabody Conservatory of

Music until 2015, when he joined the UCSF Department of Otolaryngology-Head and Neck Surgery. Dr. Limb's current areas of research focus on the study of the neural basis of musical creativity as well as the study of music perception in deaf individuals with cochlear

implants. His work has received international attention and has been featured by National Public Radio, TED, National Geographic, the New York Times, PBS, CNN, Scientific American, the British Broadcasting Company, the Smithsonian Institute, the Library of Congress, the Sundance Film Festival, Canadian Broadcasting Company, Baltimore Symphony Orchestra and the American Museum of Natural History.



Daniel J. Levitin is James McGill Professor Emeritus of Psychology and Neuroscience at McGill University. He has held Associate Appointments in the School of Computer Science, Faculty of Education, Department of Neurology & Neurosurgery, and School of Music. Levitin is also the Founding Dean of Arts and Humanities at the Minerva Schools at KGl and a Distinguished Faculty Fellow in the Haas School of Business at University of California Berkeley.

Dr. Levitin earned his Ph.D. in Cognitive Psychology University of Oregon, his B.A. from Stanford in Cognitive Psychology, and com-

pleted post-doctoral training at Stanford University Medical School and UC Berkeley. He has been a visiting professor at Stanford University, UC Berkeley and Dartmouth.

Levitin has published more than 100 scientific articles, and over 300 popular articles about music and music technology in magazines including *Billboard*, *Electronic Musician*, *Mix*, and *Grammy*. His research has been featured on the MacNeil/Lehrer NewsHour, *The New York Times*, *The London Times*, *Scientific American*, and *Rolling Stone*.

He is the author of the four consecutive international bestsellers *This Is Your Brain On Music*, *The World in Six Songs, The Organized Mind: Thinking Straight in the Age of Information Overload*, and his newest book *A Field Guide to Lies: Critical Thinking in the Information Age*, released in 2016.

As a musician (tenor saxophone, guitar and bass), he has performed with Mel Tormé, David Byrne, Roseanne Cash, Victor Wooten, Sting, Bobby McFerrin, Rodney Crowell, and Blue Öyster Cult. Levitin served as Vice President and as President of 415/Columbia Records (now Sony Records). He has produced and consulted on albums by artists including Stevie Wonder, Steely Dan, and Blue Öyster Cult, and on the films *Good Will Hunting* and *Pulp Fiction*. For his technical and marketing contributions to the recording industry, Levitin has been awarded 14 gold and platinum records.



Colombia Recording Artist **Jussie Smollett** stars as Jamal Lyon on the series *Empire* from producers Lee Daniels and Danny Strong. His role allows him to blend his acting, singing, and songwriting skills in this high-octane family drama, which is a historic hit on FOX. He recently guest starred as Josey in the new WGN thriller *Underground* which stars his sister Jurnee Smollett-Bell. Smollett received the Outstanding New Artist and awards for Outstanding Song "You're So Beautiful" which he co-wrote, and Outstanding Collaboration with Estelle "Conqueror" at the 2016 NAACP Image Awards. In 2015 it was announced that he was named the new ambassador for Pepsi.

Feature film credits include *The Mighty Ducks*, Rob Reiner's *North*, and Alex Haley's *Queen*. He also appeared in the telefilm *A Little Piece of Heaven*, and went on to star with his five real-life siblings in the ABC comedy series *On Our Own*.

He guest starred on *Revenge* and *The Mindy Project*, and portrayed British racecar driver Tariq Hamilton in the independent film *Born to Race: Fast Track*. In the 2012 film *The Skinny*, Smollett received rave reviews for his portrayal as a medical student hosting his college friends for a wild weekend in New York City.

On the music front, the singer/songwriter is currently recording his album, described as a mix of pop and soul with alternativeh hip-hop beats.

Smollett is actively involved in numerous charities and was named by the Black AIDS Institute as one of the "30 Artists Under 30," truly making a difference in the fight against HIV/AIDS. The group also awarded him with their prestigious "Heroes in the Struggle" award. Smollett sits on the Board of Artists for a New South Africa (ANSA), The Trayvon Martin Foundation, and the RuJohn Foundation which supplies clothes, school materials, and scholarships to children in Jamaica and the U.S. He recently visited Hurley Medical Center in Flint, Michigan, alongside Dr. Mona Hanna-Attisha and Dr. Lawrence Reynolds, who have lead the charge on behalf of sick children affected by the water crisis. In 2016 he received the prestigious NAACP Chairman's Award, where he was honored for his activism and using his platform to bring attention to civil rights and social justice causes.

Born in Santa Rosa, CA, Smollett resides in Los Angeles and Chicago

Production CreditsVice President, Production

Vice President, Production	Glenn Turner
Concert Hall Production Manager	William Foster
Director, Special Programming	Matthew Winer
Producer	Sarah Kramer
Production Coordinator	Emeline Carlisle
Production Coordinator	Wendy Dubner
Creative Producer	Daniel Levitin
Creative Producer	Charles Limb
Creative Producer/Conductor	Edwin Outwater
Lighting Designer	Dan Covey
Stage Manager	Peggy Dahlquist
Travel Coordinator	Kenva Sumner

A HISTORY OF THE ORCHESTRA

The 2016–2017 season marks the NSO's 86th, and its seventh and final led by Music Director Christoph Eschenbach, also the Music Director of the Kennedy Center. In 2016, Italian conductor Gianandrea Noseda was named the Orchestra's seventh music director, beginning with the 2017–2018 season; he serves as Music Director Designate for the 2016–2017 season. Founded in 1931, the Orchestra has, throughout its history, been committed to artistic excellence and music education. In 1986, the National Symphony became an artistic affiliate of the John F. Kennedy Center for the Performing Arts, where it has performed a full season of subscription concerts since the Center opened in 1971. The National Symphony Orchestra regularly participates in events of national and international importance, including performances for state occasions, presidential inaugurations and official holiday celebrations. Its regularly televised holiday appearances for Capitol Concerts and local radio broadcasts on WETA make the NSO one of the most-heard orchestras in the country.

The Orchestra itself numbers 96 musicians who perform approximately 150 concerts each year. These include classical subscription series, pops concerts, summer performances at Wolf Trap and on the lawn of the U.S. Capitol, chamber music performances in the Terrace Theater and on the Millennium Stage, and an extensive educational program, with performances designed for ages three years and up, and audience engagement activities, as well. Additionally, the NSO's community engagement projects are nationally recognized, including NSO In Your Neighborhood which comprises a week of approximately 50 performances in schools, churches, community centers, and other neighborhood venues) and NSO Sound Health, which has taken the NSO to the National Institutes of Health (NIH), Children's Inn at NIH, Walter Reed National Military Medical Center, Children's National Medical Center, and Inova Health System. Career development opportunities include the NSO Youth Fellowship Program and its Summer Music Institute.



The National Symphony Orchestra and Music Director Christoph Eschenbach.

Photo by Scott Suchman

JFKC: A Centennial Celebration of John F. Kennedy

In the year leading up to the centennial of John F. Kennedy's birth on May 29, 2017, the Kennedy Center, the living memorial to President John F. Kennedy, is re-imagining the very mission of the institution created in his name. Inspired by some of the key ideals he championed—Courage, Freedom, Justice, Service, and Gratitude—the Center is featuring special programming through the year that explores, challenges, and reflects the contemporary spirit of America. Guided by JFK's legacy of idealism, hope, and empowerment, the Kennedy Center will serve as a creative catalyst and meeting place, inviting members of the public to engage directly with artists and ideas, and actively participate in the civic and cultural life of their country.

NATIONAL SYMPHONY ORCHESTRA

CHRISTOPH ESCHENBACH, Music Director

The Roger and Victoria Sant Chair

GIANANDREA NOSEDA, Music Director Designate STEVEN REINEKE, Principal Pops Conductor

Violins

Nurit Bar-Josef. Concertmaster Ricardo Cyncynates, Acting Associate Concermaster William Haroutounian Holly Hamilton Hyun-Woo Kim Linda Schroeder George Marsh Jane Bowyer Stewart Teri Hopkins Lee Pavel Pekarsky Heather LeDoux Green Joel Fuller Lisa-Beth Lambert Alexandra Osborne

Marissa Regni, Principal Pamela Hentges, Assistant Principal Desimont Alston Peter P. Haase Cynthia R. Finks Deanna Lee Bien Glenn Donnellan Natasha Bogachek Carole Tafoya Evans Jae-Yeon Kim Wanzhen Li Jan Chong** Claudia Chudacoff** Joanna Owen* Malorie Blake Shin**

Violas

Daniel Foster, Principal, The Mrs. John Dimick Chair
Abigall Evans Kreuzer, Assistant Principal
William Foster
Lynne Edelson Levine
Denise Wilkinson
James Francis Deighan
Eric deWaardt
Nancy Thomas
Jennifer Mondie
Tsuna Sakamoto-Nelson
Ruth Wicker Schaaf
Mahoko Eguchi

Cellos

David Hardy, Principal,
The Hans Kindler Chair,
The Strong Family and
the Hattie M. Strong
Foundation
Glenn Garlick,
Assistant Principal
Janet Frank
Loran D. Stephenson
Steven Honigberg
David Teie
James Lee
Rachel Young
Mark Evans
Eugena Chang

Basses

Robert Oppelt, Principal Richard Barber, Assistant Principal Jeffrey Weisner Ira Gold Paul DeNola Charles Nilles Alexander Jacobsen Allison Cook**

Harp

Adriana Horne, Principal

Flutes

Aaron Goldman, *Principal* Leah Arsenault, *Assistant Principal* Alice Kogan Weinreb Carole Bean, *Piccolo*

Oboes

Nicholas Stovall, Principal, The Women's Committee Chair Jamie Roberts, Assistant Principal William Wielgus Kathryn Meany Wilson, English Horn

Clarinets

Eugene Mondie, Acting Principal Paul Cigan, Acting Assistant Principal Rebecca Tobin** Peter Cain, Bass Clarinet

Bassoons

Sue Heineman, Principal Truman Harris, Assistant Principal Steven Wilson Lewis Lipnick, Contrabassoon

Horns

Abel Pereira, Principal, The National Trustees' Chair Laurel Bennert Ohlson, Associate Principal Robert Rearden James Nickel Markus Osterlund Scott Fearing

Trumpets

William Gerlach, Principal, The Howard Mitchell Chair, The Strong Family and the Hattie M. Strong Foundation Steven Hendrickson, Assistant Principal Tom Cupples Keith Jones

Trombones

Craig Mulcahy, Principal Barry Hearn,*** Assistant Principal David Murray Matthew Guilford, Bass Trombone

Tuba

Stephen Dumaine, Principal, The James V. Kimsey Chair

Timpani

Jauvon Gilliam, *Principal*The Marion E. Glover
Chair
Charles Wilkinson,
Assistant Principal

Percussion

Eric Shin, Principal, The Hechinger Foundation Chair Kenneth Harbison, Assistant Principal Charles Wilkinson Joseph Connell*

Keyboard

Lambert Orkis, *Principal* Lisa Emenheiser*

Organ

William Neil*

Personnel

James Hewitt, Manager Karyn Garvin, Assistant Manager

Stage Manager

Donald E. Tillett

Librarians

Elizabeth Cusato Schnobrick, Principal Susan Stokdyk, Associate Nicholas Greer, Assistant

The National Symphony Orchestra uses a system of revolving strings. In each string section, untitled members are listed in order of length of service.

^{*} Regularly Engaged Extra Musician

NSO STAFF

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Director of Artistic Planning

Krysta Cihi,

Assistant Manager of Production and Operations

Daryl Donley,

Production Manager

Justin Ellis,

Artistic Administrator

Karyn Garvin,

Assistant Personnell Manager

Nicholas Greer,

Assistant Librarian

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Emily Heckel,

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James Hewitt.

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Manager of Individual Giving

Louise Niepoetter.

Executive Assistant to the Executive Director

Stephen Planas.

Manager of Corporate and Foundation Relations

Jennifer Renner,

Director of NSO Development

Rachelle Roe.

Director of Public Relations, NSO & Classical

Elizabeth Cusato Schnobrick,

Principal Librarian

Cynthia Pickett Steele,

Orchestra Manager

Susan Stokdvk.

Associate Librarian

Marina Styazhkina,

Executive Assistant to the Music Director

Donald Tillett Stage Manager

Clara Wallace,

Assistant Artistic Administrator

Warren G. Williams, III,

Manager of Community Relations

The National Symphony Orchestra warmly acknowledges the work of the following Kennedy Center areas:

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NSO Showcase on Classical WETA 90.9 FM!

The first Wednesday of each month, at 9 p.m., tune into NSO Showcase, a program featuring live and archival recordings, by the NSO, as well as news and information on upcoming NSO projects.

The National Symphony Orchestra's radio programs are generously supported in part by The Morris and Gwendolyn Cafritz Foundation.

> For more information about Classical WETA and its programs, please visit www.classicalweta.org.

STAFF FOR THE CONCERT HALL

*Mary Jo Ford.....Theater Manager Deborah Glover.....Box Office Treasurer Jerry CooperHead Usher David Langrell, Paul Farabee, Jr. Crescenda Ramble,

William DC ValentineStage Crew

union of theatrical technicians. The box office at the Kennedy Center is represented by IATSE #868.

The technicians at the Kennedy

Center are represented by

Local #22, Local #772, and Local #798 I.A.T.S.E.

AFL-CIO-CLC, the professional



Steinway Piano Gallery is the exclusive area representative of Steinway & Sons and Boston pianos, the official pianos of the Kennedy Center.

Patrick Boyland,