

# KIDSBOOK

CHICAGO SYMPHONY ORCHESTRA

CSO SCHOOL CONCERTS

March 16, 2018, 10:15 & 12:00

CSO FAMILY MATINEE SERIES

March 17, 2018, 11:00 & 12:45



**LET'S  
EXPLORE!**

Presented in  
collaboration with

The Field  
Museum



NEGAUNEE MUSIC INSTITUTE at the  
**CHICAGO SYMPHONY ORCHESTRA**

312-294-3000 | CSO.ORG | 220 S. MICHIGAN AVE. | CHICAGO

Grab your map,  
binoculars, field  
pen and notebook  
and Let's Explore  
the fascinating  
connections  
between music and  
the natural world!



## LET'S EXPLORE

### PERFORMERS

The Chicago  
Symphony Orchestra  
Edwin Outwater  
conductor  
Emily Graslie  
co-host

### PROGRAM INCLUDES SELECTIONS FROM

- Frank**  
The Mestizo Waltz  
from Three Latin-  
American Dances
- Beethoven**  
Symphony No. 5
- Smetana**  
The Moldau  
from *Má vlast*
- Bates**  
*Desert Transport*

CSO School Concerts  
CSO Family Matinee series  
LET'S EXPLORE



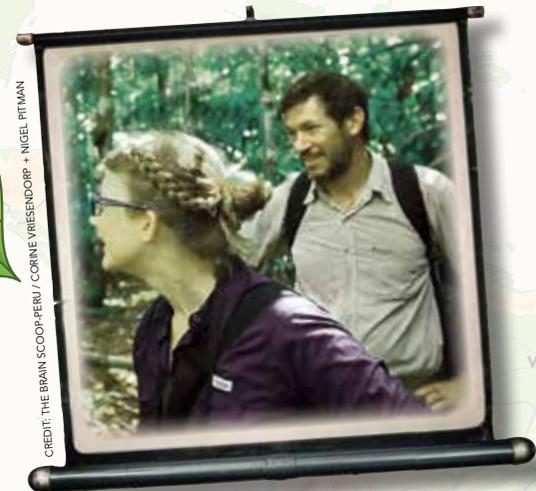
## FIELD RESEARCH



### COLLECTING INFORMATION

Scientists have explored the natural world for centuries. Today, there are still areas of our planet that are largely unknown to researchers. In 2014, The Field Museum worked with local experts in the Peruvian Amazon to learn about its complex environment and ecosystems as well as to discover new species and habitats. These local experts led scientists through the forest and down rivers to help them collect fish and plants and record bird calls.

**When scientists study what's in the air, trees and water, they can paint a more complete picture of an environment, understand how these systems work together and help keep them healthy for the long term.**



CREDIT: THE BRAIN SCOOP-PERU / CORINE VRIESENDORP + NIGEL PITTMAN



Composers sometimes work like scientists. They gather information from the world around them and use their imaginations to turn it into music. Composer Gabriela Lena Frank travels to unfamiliar places for inspiration and to record native melodies that she can use in her music. As you listen to The Mestizo Waltz, imagine Gabi Frank leading musical field research in Peru to find sounds to use in the orchestra.

**When composers study what they hear in the cultural ecosystems of other places, they promote an appreciation of the world's music and the people who make it.**





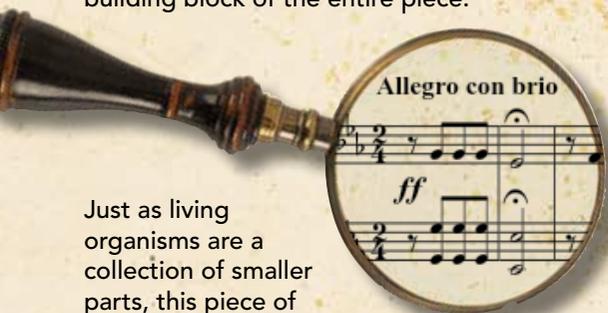
## CELLS

### ARE THE STARTING POINT



SUE the *T. rex* is one of the most famous dinosaurs of all time. Scientists are continually learning new things about this dinosaur specimen—the largest, most complete *T. rex* ever discovered and one of the most extensively studied.

Like SUE the *T. rex*, Ludwig van Beethoven's *Symphony No. 5* is one of the most famous pieces of orchestral music and it is still studied by today's music scholars. The very famous first four notes make up the cell that is the building block of the entire piece.



Just as living organisms are a collection of smaller parts, this piece of music is made up of many cells, some of which are repeated many, many times. When we examine that musical cell and the way it binds the rest of the music together, we learn a lot about the meaning of the music.

## CURIOUS COMPOSERS

### AND SCIENTISTS



After being overrun by invasive weeds, Langham Island in the Kankakee River had lost one of its most special residents—the Kankakee mallow. Because the island is the only place this flower is known to grow in the wild, nature-loving volunteers worked to remove the invasive species and restore the ecosystem. In 2015, their work paid off, as hundreds of new Kankakee mallow seedlings emerged from the ground, having lain dormant as seeds underneath the soil and weeds. Despite the problems humans can cause for our wild spaces, we have the power to create solutions when we work together.



Bedřich Smetana captured the likeness and journey of a river in *The Moldau* from *Má vlast*. This music is meant to reflect all the ways the water ebbs and flows (calm, running and turbulent) and all that appears along the shore. As you listen to this piece, notice how the music sounds like a moving river, and wonder about the journey taken by the Kankakee mallow.



**"Unique environments can be found everywhere, including places that may not seem very 'natural'—like the farm fields of Illinois."**

EMILY GRASLIE  
CHIEF CURIOSITY CORRESPONDENT  
THE FIELD MUSEUM



## USING YOUR CURIOSITY



Nature is all around you: on your city streets and in your alleyways and backyards. All you have to do is look down at the sidewalk or up toward the skyscrapers to notice it.

Curiosity about nature led composer Mason Bates to write *Desert Transport*. This piece is about a journey he took through the air to see the world in a different way. The music captures the dynamic Arizona landscape from the high-flying viewpoint of a helicopter. Through his window, Mason Bates could see the constantly changing desert colors, saguaro cacti and looming red rocks, which seemed like giants among the red-orange landscape.

**Even if you don't have a helicopter, take a moment to look inquisitively at the world around you. As you explore, ask questions, and if someone responds with "I don't know," let that be the starting point for a new and exciting discovery!**



# MEET THE CONDUCTOR



## EDWIN OUTWATER

- Edwin is the Director of Summer Concerts at the San Francisco Symphony.
- He has conducted the Chicago Symphony Orchestra, New York Philharmonic, San Francisco Symphony, Los Angeles Philharmonic and Seattle Symphony, among many others.
- Edwin conducted the world premiere of "The Composer Is Dead" by Nathaniel Stookey and Lemony Snicket while he was Resident Conductor of the San Francisco Symphony from 2001–2006.
- Edwin Outwater was born in Santa Monica, California. He loves to read and earned his undergraduate degree from Harvard University in English literature.

# MEET THE GUEST ARTIST



## EMILY GRASLIE

- Emily Graslie is Chief Curiosity Correspondent for The Field Museum, and the creator, host and writer for its educational YouTube® series, The Brain Scoop.
- Launched in January 2013, The Brain Scoop aims to share the research and collections work of natural history museums with a broad audience. To date, Emily and her team have created around 175 videos, which have been viewed more than 22 million times by passionate learners from all over the world.
- Emily's work has received numerous awards, and she is a 2018 member of the Forbes "30 Under 30" list in Education.
- In addition to her love for science, Emily is also involved in the arts and has been playing the violin since she was eight.
- Her favorite piece to perform has been "Mars" from *The Planets* by Holst with the Symphony Orchestra at the University of Montana.

CREDIT: TOM MCNAMARA / THE BRAIN SCOOP / THE FIELD MUSEUM

## CHICAGO SYMPHONY ORCHESTRA | RICCARDO MUTI ZELL MUSIC DIRECTOR

YO-YO MA Judson and Joyce Green Creative Consultant

DUAIN WOLFE Chorus Director and Conductor

SAMUEL ADAMS, ELIZABETH OGONEK Mead Composers-in-Residence

### VIOLINS

Robert Chen  
Concertmaster  
*The Louis C. Sudler  
Chair, endowed by an  
anonymous benefactor*  
Stephanie Jeong  
Associate Concertmaster  
*The Cathy and Bill  
Osborn Chair*  
David Taylor  
Yuan-Qing Yu  
Assistant Concertmasters\*  
So Young Bae  
Cornelius Chiu  
Alison Dalton  
Gina DiBello  
Kozue Funakoshi  
Russell Hershow  
Qing Hou  
Blair Milton  
Paul Phillips, Jr.  
Sando Shia  
Susan Synnestevedt  
Rong-Yan Tang

Baird Dodge  
Principal  
Sylvia Kim Kilcullen  
Assistant Principal  
Lei Hou  
Ni Mei  
Fox Fehling  
Hermine Gagné  
Rachel Goldstein  
Mihaela Ionescu  
Melanie Kupchynsky  
Wendy Koons Meir  
Matous Michal  
Simon Michal  
Aiko Noda  
Joyce Noh  
Nancy Parkt  
Ronald Satkiewicz  
Florence Schwartz

### VIOLAS

Li-Kuo Chang  
Assistant Principal  
*The Louise H. Benton  
Wagner Chair*  
John Bartholomew  
Catherine Brubaker  
Youming Chen

Sunghee Choi  
Wei-Ting Kuo  
Danny Lai  
Diane Mues  
Lawrence Neuman  
Max Raimi  
Weijing Wang

### CELLOS

John Sharp  
Principal  
*The Eloise W. Martin Chair*  
Kenneth Olsen  
Assistant Principal  
*The Adele Gidwitz Chair*  
Karen Basrak  
Loren Brown  
Richard Hirschl  
Daniel Katz  
Katinka Kleijnš  
Jonathan Pegis  
David Sanders  
Gary Stucka  
Brant Taylor

### BASSES

Alexander Hanna  
Principal  
*The David and  
Mary Winton Green  
Principal Bass Chair*  
Daniel Armstrong  
Roger Clinet  
Joseph DiBello  
Michael Hovnanian  
Robert Kassinger  
Mark Kraemer  
Stephen Lester  
Bradley Opland

### HARPS

Sarah Bullen  
Principal  
Lynne Turner

### FLUTES

Stefán Ragnar Höskuldsson  
Principal  
*The Erika and Dietrich M.  
Gross Principal Flute Chair*  
Richard Graef  
Assistant Principal  
Emma Gerstein  
Jennifer Gunn

### PICCOLO

Jennifer Gunn

### OBOES

Michael Henoch  
Assistant Principal  
*The Gilchrist  
Foundation Chair*  
Lora Schaefer  
Scott Hostetler

### ENGLISH HORN

Stephen Williamson  
Principal  
John Bruce Yeh  
Assistant Principal  
Gregory Smith  
J. Lawrie Bloom

### E-FLAT CLARINET

John Bruce Yeh

### BASS CLARINET

J. Lawrie Bloom

### BASSOONS

Keith Buncke  
Principal  
William Buchman  
Assistant Principal  
Dennis Michel  
Miles Maner

### CONTRABASSOON

Miles Maner

### HORNS

Daniel Gingrich  
Acting Principal  
James Smelser  
David Griffin  
Oto Carrillo  
Sunnana Gaunt

### TRUMPETS

Mark Ridenour  
Assistant Principal  
John Hagstrom  
Tage Larsen

### TROMBONES

Jay Friedman  
Principal  
*The Lisa and Paul Wiggin  
Principal Trombone Chair*  
Michael Mulcahy  
Charles Vernon

### BASS TROMBONE

Charles Vernon

### TUBA

Gene Pokorny  
Principal  
*The Arnold Jacobs  
Principal Tuba Chair,  
endowed by  
Christine Querfeld*

### TIMPANI

David Herbert  
Principal  
*The Clinton Family  
Fund Chair*  
Vadim Karpinos  
Assistant Principal

### PERCUSSION

Cynthia Yeh  
Principal  
Patricia Dash  
Vadim Karpinos  
James Ross

### LIBRARIANS

Peter Conover  
Principal  
Carole Keller  
Mark Swanson

### ORCHESTRA PERSONNEL

John Deverman  
Director  
Anne MacQuarrie  
Sunnana Gaunt  
Manager, CSO Auditions  
and Orchestra Personnel

### STAGE TECHNICIANS

Kelly Kerins  
Stage Manager  
Dave Hartge  
James Hogan  
Peter Landry  
Christopher Lewis  
Todd Snick  
Joe Tucker

\*Assistant concertmasters are listed by seniority. †On sabbatical §On leave  
The Paul Hindemith Principal Viola Chair, endowed by an anonymous benefactor, is currently unoccupied. The Nancy and Larry Fuller Principal Oboe Chair is currently unoccupied. The Adolph Herseth Principal Trumpet Chair, endowed by an anonymous benefactor, is currently unoccupied. The Chicago Symphony Orchestra string sections utilize revolving seating. Players behind the first desk (first two desks in the violins) change seats systematically every two weeks and are listed alphabetically. Section percussionists also are listed alphabetically.

# INSTRUMENTS OF THE ORCHESTRA

**THE STRING FAMILY** includes violin, viola, cello, bass and harp. These instruments are made of wood and strings and are played by vibrating the strings using a bow or striking the strings with the fingers.



Violin



Viola



Cello



Bass



Harp

**THE WOODWIND FAMILY** includes flute, oboe, clarinet, bassoon and saxophone. These instruments all have the same basic shape: a long tube with a mouthpiece at one end. The flute is played by blowing across a mouthpiece to create a vibration. Oboe, clarinet, bassoon and saxophone are all played by blowing air into a single or double reed attached to the mouthpiece, creating a vibration that results in sound.

**THE BRASS FAMILY** includes horn, trumpet, trombone, euphonium and tuba. Brass instruments make a sound when the players vibrate their lips inside a mouthpiece, which is fitted into the instrument. The players can change pitch on a trumpet, horn or tuba by pressing on valves. Trombone players change pitch by moving the slide back and forth.



Flute



Oboe



Bassoon



Clarinet



Saxophone



Trumpet



Trombone



Tuba



Horn

**THE PERCUSSION FAMILY** includes snare drum, bass drum, gong, triangle, xylophone, timpani and piano, among many others. Percussion instruments are struck, scraped or shaken.



Timpani



Snare Drum



Xylophone



Cymbal



Piano

Youth Education Program Sponsor:



CSO Family Matinee series media sponsor:



Support for School Concerts is generously provided by the Abbott Fund and Baxter International Inc.

Family and School Concerts are made possible with the generous support of John Hart and Carol Prins.

The Centennial Campaign for the Civic Orchestra of Chicago and Chicago Symphony Orchestra Concerts for Young People is supported with a generous lead gift from the Julian Family Foundation. To make a gift, visit [cso.org/donate](http://cso.org/donate).

Kidsbook® is a publication of the Negaunee Music Institute. For more information, call 312-294-3410 or email [institute@cso.org](mailto:institute@cso.org).

**RESOURCES:**

The Parent's Guide for this concert can be found at [csosoundsandstories.org/LEParentsGuide](http://csosoundsandstories.org/LEParentsGuide). The Teacher's Guide for this concert can be found at [csosoundsandstories.org/LETeachersGuide](http://csosoundsandstories.org/LETeachersGuide).

Content for Kidsbook was created by Katy Clusen with graphic design by Shawn Sheehy.



**NEGAUNEE MUSIC INSTITUTE** at the **CHICAGO SYMPHONY ORCHESTRA**