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## **The 19<sup>th</sup> International Symposium on Calcium Binding Proteins and Calcium Function in Health and Disease**

Welcome to Nashville and Vanderbilt University for the 19th International Symposium on Calcium-Binding Proteins and Calcium Function in Health and Disease (CaBP19). My team and I look forward to hosting you in the tradition of this esteemed series of symposia. We also hope you have an opportunity to see some of our city, one of the fastest growing metropolitan areas in the United States.

The International Advisory Committee made clear the importance of maintaining the molecular focus that has characterized all CaBP meetings. In keeping with the strong structural biology research focus of your hosts, this symposium emphasizes the molecular and structural biology and biochemical and biophysical aspects of calcium signaling, in addition to featuring leading scientists in cell biology and medical sciences. We have an illustrious group of speakers, complemented by a cadre of leading experts serving as session chairs. We are fortunate to count among our session chairs, two founding members of the CaBP series: Ernesto Carafoli and Claude Klee. We have also planned a very special session on Sunday at 11:00 am, where breakthrough structures of the ryanodine receptor determined using phenomenal new single particle cryo electron microscopy technology will be presented, followed by a round table discussion.

One important aspect of the CaBP series of symposia is the avoidance of parallel sessions. Instead scientists from different backgrounds from physical chemistry to medicine listen to the same talks and engage in lively and very fruitful discussion that stimulates cross-disciplinary thinking and new collaborations. A second important aspect is the promotion of scientists just beginning to launch their careers in our field. This includes the selection of 20 speakers to give short talks, chosen from poster abstracts. We also have a strong poster presence and will include two new events: the poster flash and “meet the scientists” lunch sessions. This promises to be a very exciting meeting with excellent opportunities for interactions among scientists in diverse areas of calcium signaling.

Walter Chazin



## MEETING INFORMATION

All sessions, meals and poster sessions will take place on the Vanderbilt University campus. Limited parking is available in the Terrace Garage. A campus map and driving directions are available on page 9 of this program, and a list of taxi services are listed on page 10. Accommodations are in the Moore House on the Kissam Quad. Sessions and breaks will take place in Featheringill Hall. Poster sessions and meals are in Rand Hall/Sarratt Student Center. Dinner on Sunday night will be served in the Kissam Center on the Kissam Quad. The banquet will be held in the Student Life Center.

### MEALS

Please note that breakfast, lunch and dinner served in Rand Hall must commence within 20 minutes of the designated start time. Diners may stay in the facility as long as they like once the meal has been served.

### SPEAKER INFORMATION

All speakers must load presentations onto a single computer just before the start of the respective session. Plenary session speakers are allotted 20 minutes for presentation plus 5 minutes for discussion. Invited session speakers are allotted 15 minutes for presentation plus 5 minutes for discussion. Abstract selected short talks are allotted 12 minutes for presentation plus 3 minutes for discussion.

### POSTER SESSIONS & ABSTRACTS

Poster boards are numbered and correspond to the page listing in the Abstract Book, which is available for download on the CaBP19 website: <http://structbio.vanderbilt.edu/cabp19/program>

Odd numbers will present during Poster Session #1 on Sunday, May 31. Even numbers will present during Poster Session #2 on Monday, June 1.

### WI-FI

Guests may use the unsecured network “vummiv.” Choose “other network” from your wireless menu and enter “vummiv” to connect.

### CHECK-IN/CHECK-OUT PROCEDURES

Check-in Times: May 30, 11:00 am – 4:00 pm

Check-out Times: June 3, 11:30 am – 2:30 pm

To arrive/depart outside of this time frame, please call 615-343-8699 and select Option #1 when you arrive or prior to your departure for check-in or check-out at the campus residence.

Room payments for May 29 arrivals (\$45) must be paid directly to Karen Davis. Do not pay the check-in staff.

Check-in & check-out occurs at the residence hall (address below)

### RESIDENCE HALL

Housing is provided in the Moore House at Kissam Quad located at 2101 West End Avenue.



## PROGRAM OVERVIEW

### Saturday, May 30, 2015

3:30 – 4:00 pm	Introductory remarks
4:00 – 5:00 pm	Ebashi Lecture: David MacLennan, University of Toronto
5:00 – 6:30 pm	Poster Flash
6:30 – 8:00 pm	Dinner (dinner served 6:30 – 6:50 pm, attendees may stay in cafeteria until 8:00 pm)

### Sunday, May 31, 2015

7:30 – 7:50 am	Breakfast served (attendees may stay in cafeteria until 9:00 am)
9:00 – 10:40 am	Session 1 – Calmodulin
10:40 – 11:00 am	Break
11:00 – 12:40 pm	Session 2 – Breakthrough CryoEM structures of RyRs
12:50 – 2:30 pm	Lunch (lunch served 12:50 – 1:10 pm, lunch break lasts until 2:30 pm)
2:30 – 4:10 pm	Session 3 – Imaging/Detecting Ca Signals
4:10 – 4:30 pm	Break
4:30 – 6:30 pm	Poster Session #1
6:30 – 8:00 pm	Dinner (dinner served in Kissam Center)

### Monday June 1, 2015

7:30 – 7:50 am	Breakfast served (attendees may stay in cafeteria until 9:00 am)
9:00 – 10:40 am	Session 4 – Interesting CaBP structures: Ca <sup>2+</sup> -gated membrane proteins
10:40 – 11:00 am	Break
11:00 – 12:40 pm	Session 5 – Membrane associated CaBPs
12:50 – 2:30 pm	Lunch (lunch served 12:50 – 1:10 pm, lunch break lasts until 2:30 pm)
2:30 – 4:10 pm	Session 6 – S100 proteins
4:10 – 4:30 pm	Break
4:30 – 6:30 pm	Poster Session #2
6:30 – 8:00 pm	Dinner (dinner served 6:30 – 6:50 pm, attendees may stay in cafeteria until 8:00 pm)

### Tuesday, June 2, 2015

7:30 – 7:50 am	Breakfast served (attendees may stay in cafeteria until 9:00 am)
9:00 – 10:40 am	Session 7 – CaBP reengineering and design
10:40 – 11:00 am	Break
11:00 – 12:40 pm	Session 8 – Store-operated calcium entry (SOCE): players and mechanisms
12:50 – 2:30 pm	Lunch (lunch served 12:50 – 1:10 pm, lunch break lasts until 2:30 pm)
2:30 – 4:10 pm	Session 9 – Immune Response
4:10 – 4:30 pm	Break
4:30 – 5:30 pm	Closing Plenary Lecture: Richard Tsien, New York University
5:30 – 6:30 pm	General Assembly
7:00 – 10:00 pm	Banquet (Dinner is only provided for those attending the banquet.)

### Wednesday, June 3, 2015

7:30 – 7:50 am	Breakfast served (attendees may stay in cafeteria until 8:45 am)
8:45 – 10:25 am	Session 10 – Calcineurin
10:25 – 10:45 am	Break
10:45 – 12:25 pm	Session 11 – Neurological Diseases
12:25 – 12:45 pm	Awards and Closing Remarks
12:45 pm	Box lunches available for takeaway




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**CaBP19 SESSION CHAIRS**

**Ernesto Carafoli**, Ph.D.; Venetian Institute of Molecular Medicine; Padua, Italy  
Ebashi Lecture and Closing Plenary Lecture

**Madeline Shea**, Ph.D.; University of Iowa; Iowa City, Iowa, USA  
Session 1 – Calmodulin

**Poul Nissen**, Ph.D.; Aarhus University; Aarhus C, Denmark

**Wayne Chen**, Ph.D.; University of Calgary; Calgary, Alberta, Canada  
Session 2 – Breakthrough Cryo EM structures of RyRs

**Katsuhiko Mikoshiba**, M.D., Ph.D.; RIKEN Brain Institute; Wako, Saitama, Japan  
Session 3 – Imaging/Detecting Ca signals

**Joachim Krebs**, Scientist Emeritus; NMR based Structural Biology MPI for Biophysical Chemistry; Goettingen, Germany  
Session 4 – Interesting CaBP structures: Ca<sup>2+</sup>-gated membrane proteins

**Volker Gerke**, Ph.D.; University of Muenster; Muenster, Germany  
Session 5 – Membrane associated CaBPs

**David J. Weber**, Ph.D.; University of Maryland; Baltimore, Maryland, USA  
Session 6 – S100 Proteins

**Robert H. Kretsinger**, Ph.D.; University of Virginia; Charlottesville, Virginia, USA  
Session 7 – CaBP reengineering and design

**Mitsu Ikura**, Ph.D.; Princess Margaret Cancer Centre/University of Toronto; Toronto, Ontario, Canada  
Session 8 – Store-operated calcium entry (SOCE): players and mechanisms

**Michael Lenardo**, M.D.; National Institute of Allergy and Infectious Diseases; Bethesda, Maryland, USA  
Session 9 – Immune Response

**Claude Klee**, Scientist Emeritus; National Institute of Health; Bethesda, Maryland, USA  
Session 10 – Calcineuren

**Jacek Kuznicki**, Ph.D.; International Institute of Molecular and Cell Biology; Warsaw, Poland  
Session 11 – Neurological diseases

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**SATURDAY • MAY 30, 2015**

**Introductory Remarks** 3:30 – 4:00 pm Featheringill Hall Auditorium  
Walter Chazin, Vanderbilt University; Nashville, Tennessee, USA

**Ebashi Lecture** 4:00 – 5:00 pm Ernesto Carafoli, Session Chair  
David MacLennan, University of Toronto; Toronto, Ontario, Canada  
*Sarcoplasmic Reticulum Calcium Binding Proteins in Health and Disease*

**Poster Flash** 5:00 – 6:30 pm

**Dinner** 6:30 – 8:00 pm Rand Hall / Sarratt Student Center




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**SUNDAY • MAY 31, 2015**

**Breakfast** 7:30 – 8:30 am Rand Hall / Sarratt Student Center

**Session 1** 9:00 – 10:40 am Featheringill Hall Auditorium

**Calmodulin** – Madeline Shea, Session Chair

John Putkey, Ph.D.; UT Health Medical School; Houston, Texas, USA

*The Molecular Mechanism of Intrinsically Disordered Regulators of CaM Signaling*

Madeline Shea, Ph.D.; University of Iowa; Iowa City, Iowa, USA

*One CaM to Bind Them: Calmodulin Discriminates Among Nine Human Voltage-Gated Sodium Channels*

Manu Ben Johny; Johns Hopkins University; Baltimore, Maryland, USA

*Conservation of CaM Regulation Across Voltage-Gated Calcium and Sodium Channels*

Christopher N. Johnson; Vanderbilt University; Nashville, Tennessee, USA

*Ca<sup>2+</sup> Regulation of the Human Cardiac Sodium Channel Nav1.5: Calmodulin Interacting with the Fast Inactivation Gate and Effects of Disease Associated Mutations*

Yuequan Shen; Nankai University; Tianjin, China

*Calcium Signaling Dynamically Control Chaperone System in Mitochondria to Regulate Leaf Senescence*

**Break** 10:40 – 11:00 am

**Session 2** 11:00 – 12:40 pm Featheringill Hall Auditorium

**Breakthrough Cryo EM structures of RyRs** – Poul Nissen and Wayne Chen, Session Chairs

Poul Nissen, Ph.D.; Aarhus University; Aarhus C, Denmark

Wayne Chen, Ph.D.; University of Calgary; Calgary, Alberta, Canada

Nieng Yan, Ph.D.; Tsinghua University; Beijing, China

*Structural basis for the long range allosteric regulation and high ion conductance of the ryanodine receptor RyR1*

Oliver Clarke, Ph.D.; Columbia University; New York, New York, USA

*Structural insights into ryanodine receptor gating*

Rouslan Efremov, Ph.D.; VIB Structural Biology Research Center; Brussels, Belgium

*Structure and dynamics of ryanodine receptor*

Round Table Discussion

**Lunch** 12:50 – 2:30 pm Rand Hall / Sarratt Student Center

**Session 3** 2:30 – 4:10 pm Featheringill Hall Auditorium

**Imaging/Detecting Ca Signals** – Katsuhiko Mikoshiba, Session Chair

Jonathan Lederer, Ph.D.; University of Maryland; Baltimore, Maryland, USA

*Mechano-chemo transduction: X-ros-dependent Ca<sup>2+</sup> signaling in heart*

Ian Parker, Ph.D.; University of California Irvine; Irvine, California, USA

*Imaging and localizing IP<sub>3</sub>-evoked calcium signals and IP<sub>3</sub> receptors at the single-channel level*

Takeharu Nagai, Ph.D.; Osaka University; Osaka, Japan

*Genetically-encoded tools to optically control and image calcium dynamics*

Erica Shannon; Vanderbilt University; Nashville, Tennessee, USA

*Calcium Dynamics as a Potential Readout of Mechanotransduction at Epithelial Wounds*

Shigenori Inagaki; Osaka University; Osaka, Japan

*Genetically-encoded Chemiluminescent Indicator Applicable in Milli-second Voltage Phenomena*

**Break** 4:10 – 4:30 pm

**Poster Session #1** 4:30 – 6:30 pm Sarratt Student Center, Room 220

**Dinner** 6:30 – 8:00 pm Kissam Center on the Kissam Quad




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**MONDAY • JUNE 1, 2015**

<b>Breakfast</b>	7:30 – 8:30 am	Rand Hall / Sarratt Student Center
<b>Session 4</b>	9:00 – 10:40 am	Featheringill Hall Auditorium
<b>Interesting CaBP structures: Ca<sup>2+</sup>-gated membrane proteins</b> – Joachim Krebs, Session Chair		
	Youxing Jiang, Ph.D.; UT Southwestern; Dallas, Texas, USA <i>Structural study of a plant RCK-regulated nuclear membrane channel</i>	
	Raimund Dutzler, Ph.D.; University of Zurich; Zurich, Switzerland <i>Structure and function of Ca<sup>2+</sup> activated TMEM16 channels and scramblases</i>	
	Stephen Long, Ph.D.; Memorial Sloan Kettering Cancer Center; New York, New York, USA <i>Structure and insights into the function of the bestrophin calcium-activated chloride channel</i>	
	Alexander Dizhoor; Salus University; Elkins Park, Pennsylvania, USA <i>Targeting Photopreceptor Membrane Guanylyl Cyclase (RetGC) by Calcium-sensor Proteins: Role of Protein Domains and the Effects of Mutations Linked to Congenital Blindness</i>	
	Anand Sharma; Centre for Cellular & Molecular Biology; Hyderabad, India <i>Identification of SCGN as a Cytosolic Insulin Binding Protein</i>	
<b>Break</b>	10:40 – 11:00 am	
<b>Session 5</b>	11:00 – 12:40 pm	Featheringill Hall Auditorium
<b>Membrane associated CaBPs</b> – Volker Gerke, Session Chair		
	Stephen Moss, Ph.D.; University College London; London, England <i>Integrated functions for annexins in the mammalian retina</i>	
	James B. Ames, Ph.D.; University of California Davis; Davis, California, USA <i>Calmodulin Capping of PSD-95 Triggers its Postsynaptic Release</i>	
	Edwin R. Chapman, Ph.D.; University of Wisconsin - Madison; Madison Wisconsin, USA <i>Engineering Ca<sup>2+</sup>-sensors for exocytosis</i>	
	Katarzyna Zoltowska; Harvard Medical School/Massachusetts General Hospital; Charlestown, Massachusetts, USA <i>Synaptotagmin 1 in Alzheimer's Disease - Guard or Partner in Crime?</i>	
	Haifeng Zheng; University of Nevada Reno; Reno, Nevada, USA <i>Na<sup>+</sup>/Ca<sup>2+</sup> Exchange Contributes to the Regulation of the Pacemaker Activity of Interstitial Cells</i>	
<b>Lunch</b>	12:50 – 2:30 pm	Rand Hall / Sarratt Student Center
<b>Session 6</b>	2:30 – 4:10 pm	Featheringill Hall Auditorium
<b>S100 proteins</b> – David J. Weber, Session Chair		
	David J. Weber, Ph.D.; University of Maryland; Baltimore, Maryland, USA <i>Structure, function, and inhibition of S100B in malignant melanoma</i>	
	Mariam Grigorian, M.D., Ph.D.; University of Copenhagen; Copenhagen, Denmark <i>Metastasis-inducing S100A4 in the pro-inflammatory pathways of Non-Communicable Diseases</i>	
	Julia Ritterhoff, Ph.D.; University of Heidelberg; Heidelberg, Germany <i>S100A1 in cardiovascular health and disease: From molecule to therapy</i>	
	Ulrike Stein; Charite - Universitätsmedizin Berlin; Berlin, Germany <i>S100A4: Key Player in Cancer Metastasis and Signaling-based Interventions for Metastasis Restriction</i>	
	Marie-Luce Bochaton-Piallat; University of Geneva; Geneva, Switzerland <i>S100A4 Promotes Smooth Muscle Cell Phenotypic Transition. Implications in Atherosclerosis</i>	
<b>Break</b>	4:10 – 4:30 pm	
<b>Poster Session #2</b>	4:30 – 6:30 pm	Sarratt Student Center, Room 220
<b>Dinner</b>	6:30 – 8:00 pm	Rand Hall / Sarratt Student Center




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**TUESDAY • JUNE 2, 2015**

**Breakfast** 7:30 – 8:30 am Rand Hall / Sarratt Student Center

**Session 7** 9:00 – 10:40 am Featheringill Hall Auditorium

**CaBP reengineering and design** – Robert Kretsinger, Session Chair

Jenny Yang, Ph.D.; Georgia State University; Atlanta, Georgia, USA

*Design calcium binding proteins for molecular imaging*

Gary S. Shaw, Ph.D.; University of Western Ontario; London, Ontario, Canada

*Come Together: Designing S100 Proteins to Identify New Biological Complexes*

Yogendra Sharma, Ph.D.; Centre for Cellular & Molecular Biology; Hyderabad, India

*Ca<sup>2+</sup>-binding beta gamma-crystallins: An affair that didn't last*

Masayuki Nara; Tokyo Medical and Dental University; Tokyo, Japan

*Infrared Studies on the Ca<sup>2+</sup>-Bound Coordination Structure of Synthetic Peptide Analogues of the Ca<sup>2+</sup>-Bound Site*

Belinda Pastrana-Rios; University of Puerto Rico; Rincon, Puerto Rico

*Novel Centrin-PRP40 Complex: Its Molecular Biophysical Characterization and Crystal Screens*

**Break** 10:40 – 11:00 am

**Session 8** 11:00 – 12:40 pm Featheringill Hall Auditorium

**Store-operated calcium entry (SOCE): players and mechanisms** – Mitsu Ikura, Session Chair

Patrick Hogan, Ph.D.; La Jolla Institute for Allergy & Immunology; La Jolla, California, USA

*The mechanics of STIM-ORAI communication*

Stefan Feske, Ph.D.; New York University; New York, New York, USA

*STIM1-mediated Ca<sup>2+</sup> influx controls immune regulation and inflammation in chronic infection*

Natalia Prevarskaya, Ph.D.; Lille University of Science and Technology; Lille, France

*Calcium and calcium channels in initiation and progression of prostate cancer*

Alexey Shalygin; Institute of Cytology, Russian Academy of Sciences; St. Petersburg, Russia

*Endogenous Store-operated Calcium Channels Regulated by STIM2 Proteins in HEK293 Cells*

Bernard T. Drumm; University of Nevada Reno; Reno, Nevada, USA

*The Role of Ca<sup>2+</sup> Influx in Spontaneous Ca<sup>2+</sup> Wave Propagation in Interstitial Cells of Cajal from the Rabbit Urethra*

**Lunch** 12:50 – 2:30 pm Rand Hall / Sarratt Student Center

**Session 9** 2:30 – 4:10 pm Featheringill Hall Auditorium

**Immune Response** – Michael Lenardo, Session Chair

Michael Lenardo, M.D.; National Institute of Allergy and Infectious Diseases; Bethesda, Maryland, USA

*Mg<sup>2+</sup> as a second messenger revealed by a human immunodeficiency*

Anjana Rao, Ph.D.; La Jolla Institute for Allergy & Immunology; La Jolla, California, USA

*Opposing transcriptional programs driven by calcium, calcineurin and NFAT in T cells*

Eric Skaar, Ph.D.; Vanderbilt University; Nashville, Tennessee, USA

*The battle for metal between bacterial pathogens and their hosts*

Veronique Schenten; University of Luxembourg; Luxembourg

*Regulation of the Neutrophil NADPH Oxidase and Release of S100A8/A9*

Anne Bresnick; Albert Einstein College of Medicine; New York, New York, USA

*Regulation of Macrophage Motility and Invasion by S100A4*

**Break** 4:10 – 4:30 pm

**Closing Plenary Lecture** 4:30 – 5:30 pm Ernesto Carafoli, Session Chair

Richard W. Tsien, Ph.D.; New York University; New York, New York, USA

*Multiple roles of calmodulin in tuning cellular function and learning and memory*

**General Assembly** 5:30 – 6:30 pm Featheringill Auditorium

**Banquet** 7:00 – 10:00 pm Student Life Center, Ballroom A




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**WEDNESDAY • JUNE 3, 2015**

**Breakfast** 7:30 – 8:30 am Rand Hall / Sarratt Student Center

**Session 10** 8:45 – 10:25 am Featheringill Hall Auditorium

**Calcineurin** – Claude Klee, Session Chair

Mark Dell'Acqua, Ph.D.; University of Colorado School of Medicine; Aurora, Colorado, USA

*Calcineurin regulation of neuronal calcium channel activity and signaling to the nucleus*

Trevor Creamer, Ph.D.; University of Kentucky College of Medicine; Lexington, KY, USA

*Disorder in calcineurin activation*

Gabriela Caraveo-Piso, Ph.D.; MIT; Cambridge, Massachusetts, USA

*FKBP12 determines calcineurin substrate selection: implications to synucleinopathies*

Cecilia Andresen; Linkoping University; Linkoping, Sweden

*Characterization of Structure, Dynamics and Calcium Binding of Plasmodium falciparum CDPK3*

Yuya Fujiwara; Okayama University; Okayama City, Japan

*Analysis of Distinct Roles of CaMKK Isoforms Using STO-609-Resistant Mutants in Living Cells*

**Break** 10:25 – 10:45 am

**Session 11** 10:45 – 12:25 pm Featheringill Hall Auditorium

**Neurological Diseases** – Jacek Kuznicki, Session Chair

Grace E. Stutzman, Ph.D.; Rosalind Franklin University; North Chicago, Illinois, USA

*Upregulated Ryanodine Receptor Activity Underlies Alzheimer's Disease Pathology from Molecular to Network Levels*

Victoria Bolotina, Ph.D.; Boston University; Boston, Massachusetts, USA

*Novel Calcium Signaling Root of Parkinson's Disease*

Jacek Kuznicki, Ph.D.; International Institute of Molecular and Cell Biology; Warsaw, Poland

*In search for models of sporadic Alzheimer's disease*

Kazunori Kanemaru; University of Tokyo; Tokyo, Japan

*New Calcium Imaging Methods for the Visualization of Local Activities of Astrocytes in vivo*

Maria Ryazantseva; Institute of Cytology, Russian Academy of Sciences; St. Petersburg, Russia

*Familial Alzheimer's Disease Mutation in Presenilin-1 Gene Leads to an Abnormal Store-operated Calcium Channels Activity Involved in the Memory Loss*

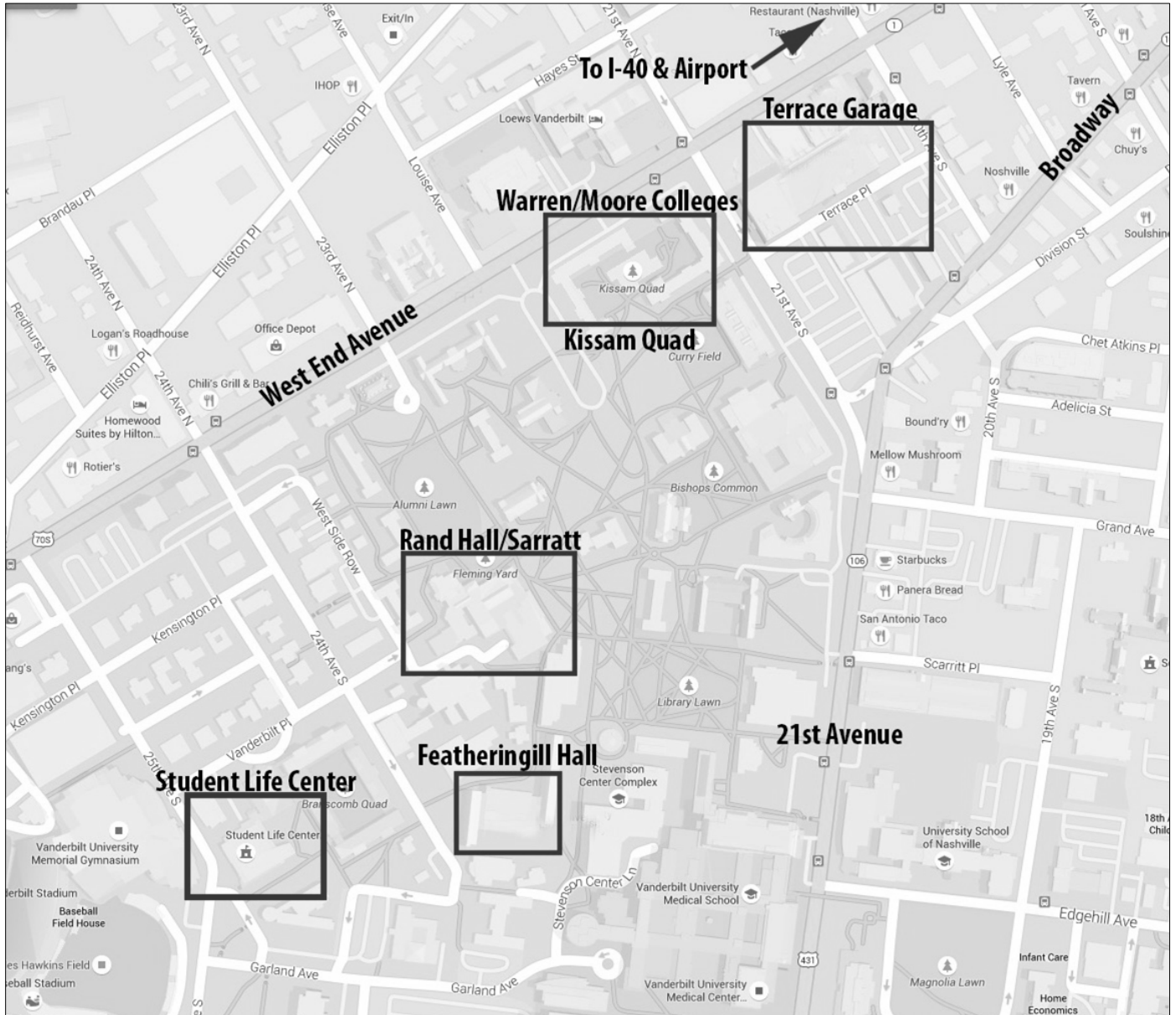
**Awards** 12:25 – 12:45 am

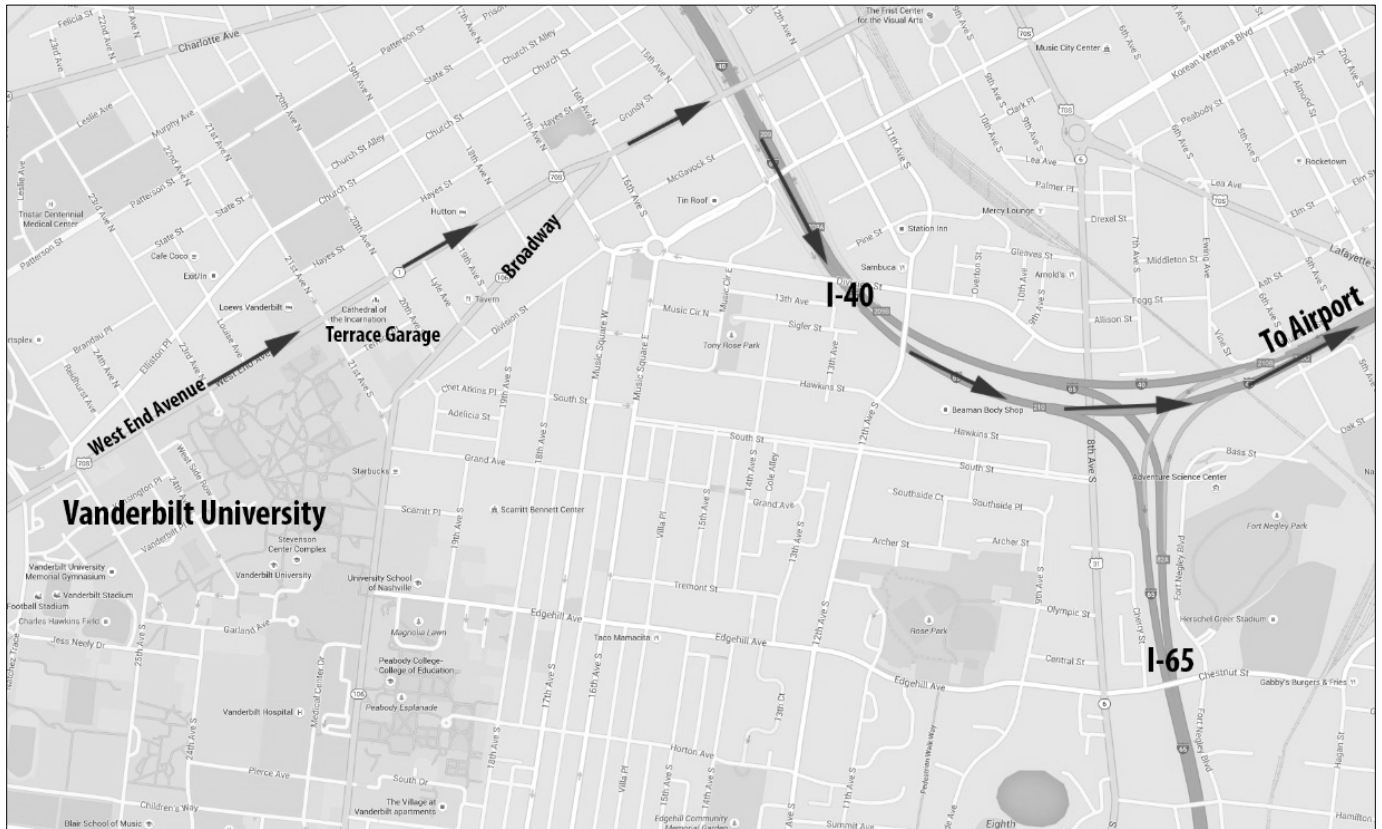
**Lunch** 12:45 pm (Box lunches will be available for take away.)





**Directions from the airport to Terrace Place parking garage:** Take I-40 West towards Nashville. Follow the signs for I-24 West/I-40 West, then I-65 South/I-40 West. Exit at Broadway. At the base of the ramp, go straight through the traffic light at McGavock Street, and turn left onto Broadway. Stay right. Continue on Broadway to 16th Avenue, where the road splits. Veer right onto West End Avenue. Turn left onto 21st Avenue South (a one-way street). Take the first left onto Terrace Place. Go 1/2 block. The Terrace Place garage entrance will be on your left.





**Nashville taxi services (partial list):**

- Allied Cab – 615-333-3333
- American Music City Cab – 615-865-4100
- Green Cab – 615-424-6000
- Magic Taxi – 615-500-5000
- Nashvegas Cab – 615-332-3333
- United Cab – 615-228-6969
- Volunteer Cab – 615-955-7777

**Shuttle services (reservations required):**

- In Shuttle – [www.inshuttle.com](http://www.inshuttle.com)
- Jarmon Transportation – <http://jarmontransportation.hudsonltd.net/res>

**Uber Nashville**

<https://www.uber.com/cities/nashville>

**For additional transportation options**

<https://www.flynashville.com/ground-transportation/Pages/default.aspx>



## NASHVILLE AREA EVENTS & ATTRACTIONS

### EVENTS

#### **Nashville Sounds Baseball** (Oakland Athletics Triple-A Minor League Baseball Team)

May 30 vs Las Vegas (New York Mets Triple-A affiliate), 6:35 pm

May 31 vs Las Vegas, 2:05 pm

June 1 vs Las Vegas, 7:05 pm

June 2 vs Salt Lake City (Los Angeles Angels Triple-A affiliate), 7:05 pm

#### **Rickey Smiley & Friends**

Saturday, May 30, 2015

Ryman Auditorium

8:00 PM

\$62.50, \$52

As a beloved comedian, television host, actor and top rated nationally syndicated radio personality; Smiley has become one of the entertainment industry's most celebrated performers. Through his brilliantly crafted career of bringing humor to the masses, Smiley has established himself as a potent pillar of talent with the capacity to reach a multitude of audiences. Smiley is one of the few "clean" comics amongst the top tier of contemporary great comedians and has amassed a deeply loyal fan base of enthusiasts who gravitate to his quick-witted delivery and captivating energy.

#### **Beethoven's Fifth**

Sunday, May 31, 7:00 PM

Schermerhorn Symphony Center

1 Symphony Place

615-687-6400

Event Description

One night only! Giancarlo Guerrero and the Nashville Symphony perform one of the greatest pieces ever written: Beethoven's Fifth Symphony, an extraordinary journey from darkness to light that continues to inspire and amaze more than 200 years after it was written. This all-Beethoven program also features two more works by the master: His uplifting Egmont Overture, and his moving Violin Concerto, featuring up-and-coming soloist Benjamin Beilman.

See more at: <http://www.nashvillelifestyles.com/events/beethovens-fifth#sthash.2RMJJ1q1.dpuf>

#### **The Music of Led Zeppelin – Night 1**

Tuesday, June 2 @ 7:30 PM. \$79

Schermerhorn Symphony Center

1 Symphony Place

615-687-6400

Event Description

HCA/TriStar Health Legends of Music Series

Bridging the gap between rock 'n' roll and classical music, the Nashville Symphony will blow you away with The Music of Led Zeppelin. Amplified by a full rock band, creator Brent Havens will guest-conduct the orchestra as they capture Led Zeppelin's sheer blast and power, riff for riff, while churning out new musical colors. The two-plus-hour concert features 18 classic Zeppelin tunes, including "Stairway to Heaven," "Heartbreaker," "Black Dog," "Immigrant Song" and more. The January 2014 show sold out instantly.

7:30 p.m. Tuesday, June 2, 2015 , 7:30 p.m. Wednesday, June 3, 2015

See more at: <http://www.nashvillelifestyles.com/events/the-music-of-led-zeppelin-nightone#sthash.ZrykvL6E.dpuf>



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## NASHVILLE AREA EVENTS & ATTRACTIONS

### DOWNTOWN ATTRACTIONS

#### Country Music Hall of Fame

222 Fifth Avenue

615-416-2001

[www.countrymusichalloffame.org](http://www.countrymusichalloffame.org)

The Country Music Hall of Fame and Museum identifies and preserves the evolving history and traditions of country music and educates its audiences. Functioning as a local history museum and as an international arts organization, the CMHOF serves visiting and non-visiting fans, students, scholars, members of the music industry. Current exhibits: *Dylan Cash and the Nashville Cats*, *Alan Jackson: 25 Years of Keepin' It Country* and *Luke Bryan & Dirt Road Diary*.

#### Ryman Auditorium

116 5th Ave North

615-889-3060

[www.ryman.com](http://www.ryman.com)

If the hallowed walls of the Ryman Auditorium could talk, the remarkable story they would tell is unmatched in entertainment history. Its construction is a tale of divine inspiration. In the 1880s, when prominent businessman and steamboat captain Thomas G. Ryman found salvation in the words of fiery evangelist Reverend Sam Jones, he vowed to build a great tabernacle that would project Rev. Jones's voice clearly and powerfully for all to hear. Designed by architect Hugh Cathcart Thompson in the Late Victorian Gothic Revival style popular at the time, Tom Ryman's vision became a reality with the completion of the Union Gospel Tabernacle in 1892. After his death in 1904, the Union Gospel Tabernacle would henceforth be known as the Ryman Auditorium in honor of the man who built the Nashville landmark.

#### Wildhorse Saloon

Restaurant, bar, line dancing, entertainment

422 Broadway

Telephone: 615-726-0463

[www.wildhorsesaloon.com](http://www.wildhorsesaloon.com)

Home to exhilarating live entertainment and free line dancing, the Wildhorse Saloon is rooted deep in music traditions from local acts to national artists. The Wildhorse Saloon opened in the heart of Music City near famous Music Row on historic Second Avenue with the Cumberland River in our backyard. "Limited Engagement Acts" that played the Wildhorse Saloon such as Darius Rucker, Etta James, 38 Special, Rick Springfield, Big & Rich, Ringo Starr and many more have all called the Wildhorse Saloon home for a time. You never know who you will see here at the World Famous Wildhorse Saloon!

#### Tootsies Orchid Lounge

Honky-Tonk, Live Music

[www.tootsies.net](http://www.tootsies.net)

Tootsie's Orchid Lounge, a Nashville country music institution and world-famous honky-tonk, has operated across the alley from the Ryman almost continuously since 1960. Its proprietor from 1960 to 1978, Hattie Louise "Tootsie" Bess, bought the lounge called "Mom's" and named it for herself. According to tradition, a painter mistakenly painted the exterior orchid purple. The color was never changed and became Tootsie's signature color. Over the years, she served such famous customers as Kris Kristofferson, Faron Young, and Willie Nelson when they were still up-and-coming artists, and Tootsie was well-known for her generosity toward struggling musicians. The photo- and memorabilia-lined walls are called "Tootsie's Wall of Fame." A portion of the Loretta Lynn biopic "Coal Miner's Daughter" was filmed inside Tootsie's.

**Riverfront Park**

100 1st Ave N

Directly across First Avenue is Riverfront Park, created in the early 1980s to commemorate Nashville's river history. In the 1780s, Nashville's first settlers came both over land and via the river to settle here along the Cumberland River. Those settlers built a two-acre fort around a freshwater spring and tucked among the cedar trees on the river bluff. A 1930 replica of that first settlement, Fort Nashborough, stands north of Riverfront Park in Bicentennial Park. Also located in Bicentennial Park is Alan LeQuire's statue of Timothy Demonbreun, an early French Canadian fur trader who settled here, and Puryear Mims's sculpture of town founders James Robertson and John Donelson. Across the river, but highly visible from Broadway, sits Alice Aycock's monumental sculpture, *Ghost Ballet for the East Bank Machineworks*, installed in 2007. The artist's concept combined elements from the industrial heritage of the east bank as well as the modern driving energy of today's city, and symbolically connects the east bank to the west, unifying the city. \*Reconstruction of Fort Nashborough is in process: creating a modern interpretation of the frontier settlement.

**Shelby Street Pedestrian Bridge**

Shelby Street Pedestrian Bridge spans the Cumberland River and connects downtown's popular 2nd Avenue area to LP Field. It's a local favorite for photography and river views, a romantic stroll, or a special event. The bridge spans 3,150 feet, one of the longest pedestrian bridges in the world. On each side of the bicycle lane are 10-foot-wide elevated boardwalk-style sidewalks. The bridge includes four scenic pedestrian overlooks that, in the metal of the railing, have artistic renderings of the history of life on the Cumberland River. The bridge is dramatically lit at night. The refurbished bridge is part of the Metro Nashville Greenway system. The eastern terminus includes a pedestrian plaza with special landscaping and is very close to LP Field. The western terminus comes out facing the Schermerhorn Symphony Center, close to the Country Music Hall of Fame.



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