DESCRIBING CURRENT CHALLENGES AND ADVANCES IN THE FIELD OF PEDIATRIC ONCO-CRITICAL CARE AND EMPHASIZING THE IMPORTANCE OF THIS EMERGING SPECIALTY.
GREETINGS!

It is with great pleasure we welcome you all to Memphis for the inaugural Pediatric Onco-Critical Care Symposium! We are excited there is so much interest for the very first symposium of its kind. As you look around the room, you will see attendees from 19 states and 26 countries, representing 5 different continents.

As you know, outcomes for critically ill hematology/oncology and hematopoietic cell transplant patients, while improved over the last 2 decades, remain unacceptably poor compared with other populations we care for in our ICUs. The goal of this symposium is to bring together experts in the field and those working to become the experts of the future to stimulate discussion and grow new ideas for improving the care of this vulnerable population.

We encourage you to meet other symposium attendees and faculty, share ideas and begin collaborations. In order for us to improve the outcomes of this challenging and fragile population, we must work together. We hope that once you return to your home institutions, your experience here will not only help you provide the best possible care of these patients, but also spark an interest in developing quality improvement projects and research to improve care in the future.

We hope you enjoy your time in Memphis!

Sincerely,

R. Ray Morrison, MD
Division Chief, Pediatric Critical Care Medicine
St. Jude Children’s Research Hospital

Samir Shah, MD, MBA, FRCPc
Le Bonheur Chair of Excellence
Professor & Chief, Pediatric Critical Care Medicine
Fellowship Program Director
University of Tennessee Health Sciences Center
Le Bonheur Children’s Hospital

FACULTY LIST

Asya Agubihik, MD  
Assistant Member, Division of Critical Care Medicine  
St. Jude Children’s Research Hospital  
Memphis, TN

Jose Angelos, MD  
Medical Director Ambulatory Renal Services  
Texas Children’s Hospital  
Houston, TX

Raj Bajwa, MD  
Pediatric Hematologist-Oncologist  
 Nationwide Children’s Hospital  
Columbus, OH

Justin Baker, MD  
Member Oncology Department  
St. Jude Children’s Research Hospital  
Memphis, TN

Michael W. Bishop, MD  
Assistant Member, Oncology Department  
St. Jude Children’s Research Hospital  
Memphis, TN

Frederick Boop, MD  
Professor and JT Robertson Chair, Department of Neurosurgery  
University of Tennessee Health Science Center / Sammons Murphy Clinic  
St. Jude Children’s Research Hospital  
Memphis, TN

Chris Danley, MD, MSc  
Member Division of Bone-Marrow Transplantation and Immune Deficiency  
Cincinnati Children’s Hospital  
Cincinnati, OH

Allan Doctor, MD  
Professor of Pediatrics, Critical Care Medicine  
Washington University School of Medicine  
St. Louis, MO

Christy Duncan, MD  
Senior Physician, Pediatric Hematology/Oncology  
 Dana-Farber Cancer Institute  
Boston, MA

Lama Elbahlawan, MD  
Associate Member, Division of Critical Care Medicine  
St. Jude Children’s Research Hospital  
Memphis, TN

Julie Fitzgerald, MD, PhD  
Pediatric Intensivist  
Children’s Hospital of Philadelphia  
Philadelphia, PA

Amar Gajjar, MD  
Chair and Member, Department of Pediatric Medicine  
St. Jude Children’s Research Hospital  
Memphis, TN

Saad Ghaffoor, MD  
Staff Intensivist, Division of Critical Care Medicine  
St. Jude Children’s Research Hospital  
Memphis, TN

Stephen Gottschalk, MD  
Chair and Member, Bone Marrow Transplantation & Cellular Therapy  
St. Jude Children’s Research Hospital  
Memphis, TN

Melissa Hines, MD  
Assistant Member, Division of Critical Care Medicine  
St. Jude Children’s Research Hospital  
Memphis, TN

Caitlin Hurley, MD  
Assistant Member, Division of Critical Care Medicine and Bone Marrow Transplantation & Cellular Therapy  
St. Jude Children’s Research Hospital  
Memphis, TN

Raja Khan, MD  
Associate Member, Division of Neumology  
St. Jude Children’s Research Hospital  
Memphis, TN

Aubrey Lamplsey, MD  
Staff Intensivist, Division of Critical Care Medicine  
St. Jude Children’s Research Hospital  
Memphis, TN

Kris Mahaden, MD  
Section Chief and Medical Director, Pediatric Stem Cell Therapy/Cell Therapy  
The University of Texas MD Anderson Cancer Center  
Houston, TX

Gabriela M. Maron Affano, MD  
Assistant Member, Infectious Diseases  
St. Jude Children’s Research Hospital  
Memphis, TN

Jennifer McKee, DO  
Associate Member, Division of Critical Care Medicine  
St. Jude Children’s Research Hospital  
Memphis, TN

R. Ray Morrison, MD  
Chief and Associate Member, Division of Critical Care Medicine  
St. Jude Children’s Research Hospital  
Memphis, TN

Matthew Paden, MD  
Assistant Professor, Division of Critical Care Medicine  
Children’s Hospital of Atlanta  
Atlanta, GA

Courtney Rowan, MD  
Assistant Professor, Pediatrics  
Indiana University School of Medicine  
Indianapolis, IN

Hilesh Sandhu, MD  
Assistant Professor and Medical Director, Extra Corporeal Life Support  
University of Tennessee Health Sciences Center/ Le Bonheur Children’s Hospital  
Memphis, TN

Samir Shah, MD  
Le Bonheur Chair of Excellence  
Professor & Chief, Pediatric Critical Care Medicine  
Fellowship Program Director  
University of Tennessee Health Sciences Center/Le Bonheur Children’s Hospital  
Memphis, TN

Marie Soini, MD  
Professor, Pediatrics  
University of Minnesota  
Minneapolis, MN

Stephanie Storopoli, MD  
Professor and Co-Director, Pediatric Neuro Critical Care Unit  
University of Tennessee Health Sciences Center/Le Bonheur Children’s Hospital  
Memphis, TN

Robert Tamboura, MD, MS  
Professor, Department of Pediatrics  
Divisions of Pediatric Critical and Pediatric Care Medicine  
Janet Weis Children’s Hospital  
Geisinger Medical Center  
Danville, PA

Jeffrey Toubin, MD  
Professor, Division Chief and St. Jude Chair of Excellence, Pediatric Cardiology  
University of Tennessee Health Sciences Center/Le Bonheur Children’s Hospital  
Memphis, TN

Matt Zinter, MD  
Assistant Professor, Pediatrics  
University of California San Francisco  
San Francisco, CA
## TUESDAY, APRIL 23RD

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00</td>
<td>Registration and Breakfast • MTC Atrium</td>
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<tr>
<td>8:00</td>
<td>Welcome: R. Ray Morrison, Samir Shah and Ellis Neufeld • MTC Auditorium</td>
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<tr>
<td>8:15</td>
<td>Rational Transfusion Decision Making: Balancing Anemia Tolerance and Stored RBC Efficacy: Allan Doctor • MTC Auditorium</td>
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<tr>
<td>9:00</td>
<td>Introduction to the Post-HSCT Patient: Kris Mahadeo • MTC Auditorium</td>
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<td>9:30</td>
<td>Respiratory Failure in HSCT: Jennifer McArthur • MTC Auditorium</td>
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<tr>
<td>10:00</td>
<td>Ventilation Strategies in HSCT: Courtney Rowan • MTC Auditorium</td>
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<tr>
<td>10:30</td>
<td>BREAK • MTC Atrium</td>
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<tr>
<td>11:00</td>
<td>Identification and Management of Thrombotic Microangiopathy After Allogeneic Stem Cell Transplant: Chris Dandoy • MTC Auditorium</td>
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<tr>
<td>11:30</td>
<td>Veno-Occlusive Disease: Raj Bajwa • MTC Auditorium</td>
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<tr>
<td>12:00</td>
<td>Outcomes Post Critical Illness in HSCT: Christy Duncan • MTC Auditorium</td>
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<tr>
<td>12:30</td>
<td>LUNCH • MTC Atrium</td>
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<tr>
<td>1:30</td>
<td>BREAKOUT SESSIONS: 1A. RESEARCH AND FUNDING IN PEDIATRIC ONCO-CRITICAL CARE (MTC Auditorium) and 1B. PEDIATRIC ONCO-CRITICAL CARE TRAINING (Lecture Hall)</td>
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<tr>
<td>2:45</td>
<td>ECMO in Oncology and Post-HSCT: Matthew Paden • MTC Auditorium</td>
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<tr>
<td>3:15</td>
<td>ECMO Panel • MTC Auditorium</td>
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<tr>
<td>4:15</td>
<td>BREAK • MTC Atrium</td>
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<tr>
<td>4:30</td>
<td>Advances in Therapies for Solid Tumors: Michael W. Bishop • MTC Auditorium</td>
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<td>5:00</td>
<td>Hemophagocytic Lymphohistiocytosis: Melissa Hines • MTC Auditorium</td>
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<td>5:30</td>
<td>Advances In Cell-Based Therapies: Stephen Gottschalk • MTC Auditorium</td>
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<tr>
<td>6:00</td>
<td>Critical Complications of CAR-T Therapy: Julie Fitzgerald • MTC Auditorium</td>
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<td>6:30</td>
<td>Group photo • MTC Atrium</td>
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<tr>
<td>6:30-8:30</td>
<td>DINNER • MTC Atrium</td>
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## WEDNESDAY, APRIL 24TH

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
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<tbody>
<tr>
<td>7:00</td>
<td>Breakfast • MTC Atrium</td>
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<tr>
<td>8:00</td>
<td>Hemostasis Issues in Onco-Critical Care: Marie Steiner • MTC Auditorium</td>
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<td>8:30</td>
<td>Renal Complications In Pediatric Oncology and Post-HSCT: Joe Angelo • MTC Auditorium</td>
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<tr>
<td>9:00</td>
<td>Chemotherapy-Induced Myocardial Dysfunction: Jeffrey Towbin • MTC Auditorium</td>
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<tr>
<td>9:30</td>
<td>Infectious Diseases Complications in Immunocompromised Patients: Gabriela M Maron Alfaro • MTC Auditorium</td>
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<tr>
<td>10:00</td>
<td>Pediatric Onco-Critical Care in Resource-Limited Settings: Asya Agulnik • MTC Auditorium</td>
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<tr>
<td>10:30</td>
<td>BREAK • MTC Atrium</td>
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<tr>
<td>11:00</td>
<td>BREAKOUT SESSIONS: 2A. DIFFICULT CASES (MTC Board Room) and 2B. NEURO-ONCOLOGY CRITICAL CARE (Lecture Hall)</td>
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<tr>
<td>12:15</td>
<td>LUNCH • MTC Atrium</td>
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<tr>
<td>1:15</td>
<td>Palliative Care: Justin Baker • MTC Auditorium</td>
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<tr>
<td>1:45</td>
<td>Family Panel • MTC Auditorium</td>
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<tr>
<td>2:30</td>
<td>Hypoxemic Respiratory Failure in Pediatric Hematopoietic Cell Transplant Patients: Past, Present and Future : Robert Tamburro • MTC Auditorium</td>
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<tr>
<td>3:15</td>
<td>Conclusion: R. Ray Morrison and Samir Shah • MTC Auditorium</td>
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<tr>
<td>3:30-4:15</td>
<td>CLOSING COFFEE BREAK • MTC Atrium</td>
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BREAKOUT SESSION DESCRIPTIONS

TUESDAY, APRIL 23RD | 1:30PM – 2:45 PM

BREAKOUT SESSION 1A
Research and Funding in Pediatric Onco-Critical Care
Location: Auditorium
Lead: Matthew Zinter, MD (UCSF)
Panelists:
• Allan Doctor, MD (Washington University)
• Jeffrey Towbin, MD (UTHSC)
• Courtney Rowan, MD (Indiana University)
• Chris Dandoy, MD (Cincinnati Children’s)
• Arzu Onar-Thomas, PhD (St. Jude)

Discussion of ongoing efforts in the fields of basic, translational, and clinical research focused on improving outcomes for critically ill pediatric hematology, oncology, and stem cell transplant patients. Emphasis on strategies for developing multi-center collaborations that leverage the strengths of individual investigators and institutions and also discuss traditional and unique opportunities for funding this important work.

BREAKOUT SESSION 1B
Pediatric Onco-Critical Care Training
Location: Lecture Hall
Lead: Caitlin Hurley, MD (St. Jude)
Panelists:
• Marie Steiner, MD (Minnesota)
• Samir Shah, MD (Le Bonheur)
• Jennifer McArthur, DO (St. Jude)
• Michele Loi, MD (Children’s Colorado)
• Marshay James, NP (St. Jude)

Discussion of the role and need for training in the emerging discipline of onco-critical care. Focus on current and future opportunities and challenges to pediatric onco-critical care, including combined fellowships programs, education and training of advanced practice nurses, specialty care teams and other novel approaches.

WEDNESDAY, APRIL 24TH | 11:30-12:15

BREAKOUT SESSION 2A
Difficult Cases
Location: Board Room
Lead: Lama Elbahlawan, MD (St. Jude)
Case Presentation:
• Tim Flerlage, MD (St. Jude)
• Karan Karki, MD (St. Jude)
Panelists:
• Courtney Rowan, MD (Indiana University)
• Matt Zinter, MD (UCSF)
• Saad Ghafoor, MD (St. Jude)
• Ray Morrison, MD (St. Jude)

Presentation of 2 challenging pediatric onco-critical care cases:
1) Hepatic failure management after PEG-asparaginase administration and
2) Pulmonary hemorrhage in a child with leukemia.

Discussion of cases and management challenges with engaging discussion.

BREAKOUT SESSION 2C
Neuro-Oncology Critical Care
Location: Lecture Hall
Lead: Nadeem Shafi (Le Bonheur)
Panelists:
• Raja Khan, MD (St. Jude)
• Frederick Boop, MD (UTHSC)
• Stephanie Storgion, MD (Le Bonheur)
• Amar Gajjar, MD (St. Jude)

Presentation of challenging pediatric neuro-oncology cases requiring critical care.

Discussions will highlight the interplay of neurology, neuro-oncology, neurosurgery, and critical care expertise in managing these complex patients.
CONTINUING MEDICAL EDUCATION INFORMATION

EDUCATIONAL OBJECTIVES
After attending this educational symposium, you should be able to:

1. Determine which latest developments in pediatric onco-critical care are applicable to their practice
2. Plan ways to implement those developments and strategies

Please note that session objectives will be presented during the symposium as appropriate.

ACCREDITATION STATEMENT
This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of St. Jude Children’s Research Hospital and Le Bonheur Children’s Hospital/University of Tennessee Health Science Center. St. Jude Children’s Research Hospital is accredited by the ACCME to provide continuing medical education for physicians.

CREDIT DESIGNATION
St. Jude Children’s Research Hospital designates this live activity for a maximum of 14.25 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

EVALUATION AND CLAIMING CERTIFICATES
To claim AMA PRA Category 1 Credit™ or attendance credit for this activity, you must attend the sessions and complete the evaluation by following the instructions below:

• Go to cme.stjude.org
• Sign in using the email address you used when registering for this conference and your password (to set or re-set your password, click “forgot my password” and follow the instructions; St. Jude employees should choose “Sign in with your St. Jude ID”)
• Click the gray MyCME button in the menu bar of your screen and choose Evaluations and Certificates
• Click “Complete Evaluation” by Pediatric Onco-Critical Care Symposium to complete the evaluation for this activity
• You will then be returned to the Evaluations and Certificates screen to print, download, or email your certificate.

If you have questions about claiming your CME or attendance certificate, please contact us at cme@stjude.org.

DISCLOSURE OF FINANCIAL RELATIONSHIPS
All individuals in a position to control the content of this CME activity (such as faculty, presenters, and planners) were asked to complete a statement regarding all relevant financial relationships between themselves or their spouse/partner and any commercial interest (defined by the ACCME as “any entity producing, marketing, re-selling, or distributing health care goods and services consumed by, or used on, patients”). All relevant relationships are disclosed below.

St. Jude CME has reviewed and resolved any conflicts of interest that were identified.

<table>
<thead>
<tr>
<th>NAME</th>
<th>COMPANY</th>
<th>TYPE OF RELATIONSHIP</th>
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<tbody>
<tr>
<td>Allan Doctor, MD</td>
<td>KaloCyte Inc.</td>
<td>Intellectual property rights/patent holder</td>
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<td>KaloCyte Inc., Etiometry Inc.</td>
<td>Ownership interest</td>
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<td>Supported/contracted research</td>
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<td>Fresenius Kabi AG, Biogen Idec</td>
<td>Royalties or honoraria</td>
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<tr>
<td>Christy Duncan, MD</td>
<td>Bluebird Bio, Magenta Therapeutics</td>
<td>Consultant fees</td>
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<tr>
<td>Amar Gajjar, MD</td>
<td>Genentech Inc., Kazia Pharmaceuticals</td>
<td>Supported/contracted research</td>
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<tr>
<td>Stephen Gottschalk, MD</td>
<td>Immatics US, Inc.</td>
<td>DSMB Member</td>
</tr>
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<td>Tessa Therapeutics</td>
<td>Supported/contracted research</td>
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<tr>
<td>Gabriela Maron Alfaro, MD</td>
<td>Chimerix, Astellas</td>
<td>Supported/contracted research</td>
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GENERAL INFORMATION

LOCATION OF SYMPOSIUM
Marlo Thomas Center for Global Education and Collaboration
St. Jude Children’s Research Hospital
262 Danny Thomas Place Memphis, TN 38105-3678
The Symposium will be held in the Auditorium with breakout sessions in the Board Room and Lecture Hall.

REGISTRATION
Please check in on Tuesday, April 23, from 7:00 am–8:00 am. If you arrive later, you will be able to pick up your badge and program materials at the Registration Desk.

MOTHERS’ ROOM
St. Jude Children’s Research Hospital offers several Mothers’ Rooms around the campus for symposium registrants. These rooms can be used to breastfeed your infant or to express and store milk while at the symposium. The closest rooms to use during symposium hours are the Mothers’ Room located at the Chili’s Care Center and Danny Thomas Research Center. Please seek staff assistance at the Registration Desk before attempting to use this facility.

SHUTTLE BUS SERVICE
Blues City Tours shuttle bus service is available for registrants to St. Jude Children’s Research Hospital from the Peabody Hotel and back for both days of the symposium.

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>PICK-UP/DROP-OFF LOCATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday, April 23</td>
<td>Morning: Starting at 6:45 am, then every 15 minutes until 8 am</td>
<td>Union Ave front entrance Peabody Hotel to Marlo Thomas Center</td>
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<td>Evening: Starting at 7:00 pm, then every 15 minutes until 8 pm</td>
<td>Marlo Thomas Center to Peabody Hotel</td>
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<tr>
<td>Wednesday, April 24</td>
<td>Morning: Starting at 6:45 am, then every 15 minutes until 8 am</td>
<td>Union Ave front entrance Peabody Hotel to Marlo Thomas Center</td>
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<td>Afternoon: Starting at 3:30 pm, then every 15 minutes until 5 pm</td>
<td>Marlo Thomas Center to Peabody Hotel</td>
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TUESDAY NIGHT DINNER
Tuesday evening dinner will be served at 6:30 pm in the atrium of the Marlo Thomas Center.

INTERNET ACCESS
St. Jude Children’s Research Hospital offers wireless Internet access through Hope Net.

STAFF CONTACT INFORMATION
For onsite assistance, please call Janice Pilkington at 901-230-6421 or 901-595-3668 or see one of the staff at the registration desk.

END OF SYMPOSIUM
Those calling for an Uber or taxi to airport, please give driver contact your name & pickup at the Marlo Thomas Center for them to clear the security gate.

MARLO THOMAS CENTER

- Auditorium
- Atrium
- Board Room
- Lecture Hall
- MTC main entrance
- Restrooms
SPECIAL THANKS
TO THESE ST. JUDE FACULTY, STAFF, AND VOLUNTEERS:

Jennifer Alessi, MA, CHCP
Wendy Avery
James Downing, MD
Chris Fiveash
Tim Flerlage, MD, PharmD
Amar Gajjar, MD
Terrence Geiger, MD, PhD
Marshay James, DNP
Karan Karki, MD
Michele Loi, MD
Ellis Neufeld, MD, PhD
Arzu Onar-Thomas, PhD
Carlos Rodriguez-Galindo, MD
Elizabeth Stevens
Lisa Trumbo
Andrea Westmoreland, MEd
Division of Critical Care
Faculty Affairs Department
Global Pediatric Medicine Department
NOTES

CAMPUS MAP

PEDIATRIC PALLIATIVE ONCOLOGY SYMPOSIUM
June 8–9, 2017
Marlo Thomas Center
St. Jude Children’s Research Hospital
262 Danny Thomas Place, Memphis, TN 38105

If driving, enter through the A.W. Willis Security Gate and park in Garage 3. A limited number of spaces on the 1st floor will be reserved for you.

PARKING GARAGE 3
MARLO THOMAS CENTER ENTRANCE (ORIENTATION)

SHUTTLE SERVICE
June 8, 2017
Morning pick up at The Peabody from 6:45-8:00 am
Drop off at the Marlo Thomas Center
Evening pick up at the Marlo Thomas Center from 6:45-7:30 pm
Drop off at The Peabody

June 9, 2017
Morning pick up at The Peabody from 6:45-8:00 am
Drop off at the Marlo Thomas Center
Afternoon pick up at the Marlo Thomas Center from 4:30-5:30 pm
Drop off at The Peabody
SPONSORED BY ST. JUDE CHILDREN’S RESEARCH HOSPITAL AND LE BONHEUR CHILDREN’S HOSPITAL.