

## NACMID's Thirty Fourth Annual Meeting presents:

# Past Challenges and Future Directions in Clinical Microbiology



# Sheraton Portsmouth Harborside Hotel Portsmouth, NH September 12 & 13, 2022

*In response to the COVID-19 Pandemic:* This event will comply with local and current guidance in effect at the time of the event. Any changes to the current guidelines will be communicated in the weeks leading up to the event via the *NACMID website, Facebook, and email* for members and registered attendees.

## **Session Faculty & Presenters**

#### James T. Griffith, PhD, CLS(NCA)

Chancellor Professor Emeritus (Retired) University of Massachusetts- Dartmouth Managing Partner, Forensic DNA Associates North Dartmouth, MA

#### Jessica Crothers, MD

Assistant Professor, Pathology & Microbiology University of Vermont Medical Center Burlington, Vermont

#### Brandon Dionne, PharmD, BCPS, BCIDP

Associate Clinical Professor School of Pharmacy & Pharmaceutical Sciences Northeastern University Clinical Pharmacist, Infectious Diseases Brigham and Women's Hospital Boston, MA

#### Shoolah Escott, MS, MT(ASCP)

Biosafety, Biosecurity and Bioterrorism Preparedness Trainer CDC and MA State Public Health Laboratory (Retired) Boston, MA

#### Sanjat Kanjilal MD, MPH

Associate Medical Director, Microbiology Brigham and Women's Hospital Lecturer, Dept. of Population Medicine Harvard Medical School & Harvard Pilgrim Healthcare Institute Boston, MA

#### Marie-Claire Rowlinson, PhD, D(ABMM)

Laboratory Chief of Bacterial Disease Wadsworth Center David Axelrod Institute Albany, NY

#### David W. Kubiak, PharmD, BCPS, BCIDP

Advanced Practice Pharmacy Specialist Infectious Diseases Co-director Brigham and Women's Hospital Co-Chair Antimicrobial Stewardship Program Mass General Brigham Antimicrobial Stewardship & Infectious Diseases Quality Collaborative Boston, MA

#### Kimberlee Musser, PhD

Clinical Director Wadsworth Center David Axelrod Institute Albany, NY

#### Andrew Berens, MBA, MLS(ASCP)<sup>CM</sup>, SM<sup>CM</sup>

Business Development Manager, Northeast Copan Diagnostics, Inc. Murrieta, CA

#### Isabella W. Martin, MD, D(ABMM)

Medical Director, Microbiology Assistant Professor, Pathology and Lab Medicine Dartmouth-Hitchcock Medical Center Geisel School of Medicine, Dartmouth College Lebanon, NH

#### Sudha Chaturvedi, PhD

Director, Mycology Laboratory Wadsworth Center David Axelrod Institute Albany, NY

#### Michael A. Pentella, Ph.D., D(ABMM)

Clinical Professor & Laboratory Director University of Iowa State Hygienic Laboratory Coralville, IA

#### Katherine Perez Burroughes, PharmD, BCIDP Antimicrobial Stewardship Director BioMerieux

Houston, TX

#### Terri Riddle, MBA, MLS(ASCP)

Microbiology Workflow & Automation Manager Beckman Coulter Sour Lake, TX

#### Max Salfinger, MD

Professor (Retired) University of South Florida College of Public Health and Morsani College of Medicine

#### Minkey Wungwattana, PharmD, BCIDP

Infectious Diseases Clinical Pharmacist Program Director, Antimicrobial Stewardship MaineHealth Maine Medical Center/ Maine Medical Partners Westbrook, ME



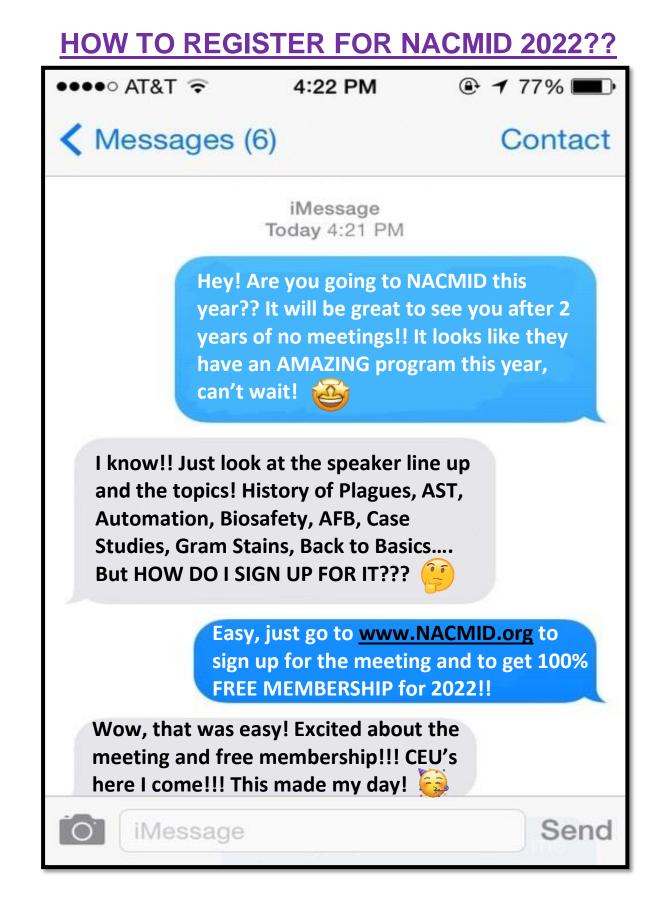
Masking policy will comply with local laws/ hotel rules at the time of the meeting. Masks will be provided free of charge at check-in, to all attendees, regardless of local laws. NACMID will comply with all recommended cleaning and sanitation procedures to best ensure your health and safety!



Vaccination against COVID-19 is HIGHLY RECOMMENDED for attendance to this event. Vaccines continue to be our best tools against COVID-19. For a list of vaccine clinics near you go to: <u>www.vaccines.gov</u>



For updates and information regarding current and upcoming meetings, follow us on Facebook: Northeast Association for Clinical Microbiology and Infectious Disease



Go to <u>www.NACMID.org/2022-conference</u> to sign up for this year's meeting!

Go to <u>www.NACMID.org/membership</u> to get your ONE YEAR OF FREE NACMID membership – just for being a rockstar during this past pandemic! We thank you for all your efforts and commitment to fighting the COVID-19 pandemic.



# *Keynote Address: Monday September 12, 2022 @ 6:00 PM*

## A Scientific History of Plagues

## Keynote Speaker: James T. Griffith, PhD, CLS(NCA)



Humans have been associated with microorganisms since before the existence of our species (Homo sapiens var sapiens). Pestilence is quite another matter. We have NOT always had plagues, nor high efficiency kill-off from microorganisms. This session will explore our best information as to how all this began, describe some of the most notorious examples and make predictions as to the options available in our future and how they might succeed in helping us to cope with pestilence yet to come.

Dr. James T. Griffith served as Chancellor Professor and Chairperson of the Department of Medical Laboratory Science at the University of Massachusetts- Dartmouth from 1984 until his retirement in 2015. In 1986, Dr. Griffith also founded the UMass Center for Molecular Diagnostics, which he directed up until 2015. He served as ASCLS President from 1999-2000 and is a 2-time Sherwood Microbiology Award winner and Distinguished Author Award winner in ASCLS. Since "retirement", Dr. Griffith has been a Managing Partner at Forensic DNA Associates.

As a professor, Dr. Griffith has had the pleasure of watching thousands of Medical Laboratory Science students graduate and mentoring them to become outstanding laboratory professionals and laboratory leaders, among various other careers paths.

## Wine and Cheese Reception & Keynote address: Both are FREE

Please join us for a reception, hosted by the Vendors in the Exhibit Hall following Monday's Workshops, from 4:30-6:00pm. We will be serving Wine & Cheese, soft drinks and cold beer, and hot and cold hors d'oeuvres. *The Keynote Address will* be from 6:00-7:00 pm. <u>THESE EVENTS ARE FREE HOWEVER YOU MUST REGISTER</u> <u>SEPARATELY IF NOT ATTENDING A WORKSHOP and/ or GENERAL SESSION.</u> For questions about registering, please email <u>rebecca.zaffini@gmail.com</u> or <u>Cynthia.Astolfi@steward.org</u>

## At A Glance: Monday September 12

## Workshops 1 and 2: 8am to 12pm and 2-4:30pm Workshop 3: 8am-12pm (1/2 day), Workshop 4: 2-4:30pm (1/2 day)

7-8a	Registration	Main Lobby
8a -12p	Ba -12p Let's Talk About Something other than COVID! Basic Clinical Microbiology and Hot Topics 2022 Isabella Martin (Dartmouth-Hitchcock Medical Center)	
8a -12p	Workshop 2 (FULL DAY) Topics in Antimicrobial Resistance Kimberlee Musser (Wadsworth Center) Marie-Claire Rowlinson (Wadsworth Center) Sudha Chaturvedi (Wadsworth Center)	
8a -12p	Workshop 3 (HALF DAY) Turning On A Dime: Can Your Biosafety Plan Handle An Emerging Pathogen? Michael Pentella Shoolah Escott	
9:00 – 10:00a	Coffee in Exhibit Hall Exhibits Open – <mark>Please take time to visit the vendors</mark>	Exhibit Hall
12:00 - 12:45p	Lunch	Prescott Room
12:45 – 2:00p	Dessert and coffee with our Vendors	Exhibit Hall
2:00 – 4:30p	Workshops 1 and 2 Continue	
2:00 - 4:30p	Workshop 4 (HALF DAY) The Gram Stain: A Microbiologist's Best Friend and Worst Enemy Andrew Berens (Copan Diagnostics)	
4:30 – 6:00p	Wine and cheese, hot hors d'œuvres	Exhibit Hall
6:00 – 7:00p	Keynote speaker A History of Plagues James T. Griffith (UMass Dartmouth/ Forensic DNA Associates)	

NACMID's Board of Directors and Members would like to extend a HUGE THANK YOU to our 2022 Sponsors and Exhibitors!!

## Monday- September 12, 2022

## Workshop 1 (8:00am to 12:00pm & 2:00 to 4:30pm)

## Let's Talk About Something other than COVID! Basic Clinical Microbiology and Hot Topics 2022

## Isabella Martin, MD, D(ABMM) (Dartmouth-Hitchcock Medical Center)

Technology in the field of clinical microbiology is changing fast, but many of the organisms we see commonly in the laboratory stay the same. This interactive workshop will have three parts; first, a case-based review of some of the "bread and butter" bacterial, fungal and mycobacterial pathogens we see commonly in the Northeast, highlighting the changing technologies we use for diagnosis, clinical aspects of the diseases these bugs cause, and/or important mechanisms of antimicrobial resistance. To keep everyone on their toes, we will also cover some rarer organisms and the clinical histories or laboratory characteristics that should trigger your "Spidey sense" that an unusual pathogen is present. We will then highlight the role of new technologies such as syndromic testing in patient care. Lastly, we will focus our attention on an important new College of American Pathologist checklist requirement intended to ensure that laboratories are using current breakpoints for antimicrobial susceptibility testing. Level: Basic

#### Objectives:

- Discuss some common microbes that cause infections, the changing laboratory methods we use to diagnose them and the clinical diseases they cause.
- Discuss the pros and cons of syndromic testing within the microbiology laboratory.
- Discuss the importance of implementing current breakpoints for antimicrobial susceptibility testing.

## Workshop 2 (8:00am to 12:00pm & 2:00 to 4:30pm)

## **Topics in Antimicrobial Resistance**

Kimberlee Musser, PhD (Wadsworth Center) Marie-Claire Rowlinson, PhD, D(ABMM) (Wadsworth Center) Sudha Chaturvedi, PhD (Wadsworth Center)

Antimicrobial resistance is a global public health challenge that requires consistent efforts to combat the spread of resistant pathogens and stop the emergence of new resistant organisms. This threat undermines progress in health care and life expectancy, with an estimated 2 million infections and over 200,000 deaths per year in the United States. This workshop will provide educational instruction on antimicrobial resistance and review ways laboratory scientists can better detect and respond to this threat.

- Discuss the current landscape of antimicrobial testing in the United States.
- Explain public health's response to antimicrobial resistance.
- Describe the importance of clinical breakpoints in antimicrobial resistance.
- Recognize the significance of multidrug-resistant yeast.

## Monday- September 12, 2022

## Workshop 3 (8:00am to 12:00pm)

## Turning On A Dime: Can Your Biosafety Plan Handle An Emerging Pathogen?

Michael Pentella, Ph.D., D(ABMM) Shoolah Escott, MS, MT(ASCP)

Novel and re-emerging pathogens are inevitable and will be a constant challenge for microbiologists and our world. This workshop will cover the importance of preplanning and developing a Biosafety Plan that is quickly adaptable for use with whatever biohazardous agent emerges. The workshop will begin with an overview of the components of an effective Biosafety Plan and discuss its key features. There will be an emphasis on the performance and value of the biosafety risk assessments prior to determining and implementing any mitigation steps, establishing training requirements and competency assessments for the staff. This course will also cover how to assess whether there has been an exposure and the subsequent steps that need to happen. This is an intermediate level program. Attendees should have experience in performing safety risk assessments and a basic understanding of the safety competencies. Attendees will participate in exercises based on realistic scenarios. Level: Intermediate

### **Objectives:**

- Explain how biosafety risk assessments, training and competency assessments support a biosafety program.
- Develop a biosafety plan (biosafety risk assessment, mitigation strategy, training, and competencies) for an unknown agent.
- Evaluate exposures and determine steps to alleviate impact.
- Review the biosafety plan for rapid deployment capability.

## Workshop 4 (2:00pm to 4:30pm)

## The Gram Stain: A Microbiologist's Best Friend... and Worst Enemy

## Andrew Berens, MBA, MLS(ASCP)<sup>CM</sup>SM<sup>CM</sup> (COPAN Diagnostics)

New bench tech? Seasoned bench tech? Supervisor? It doesn't matter! The Gram stain is arguably the most important test that is done in Clinical Microbiology Labs all over the world. One wrong Gram stain can have a huge effect on a patient's treatment and care. Come learn why reporting correct Gram stain results is so essential and what we can do to ensure we are giving our patients the most accurate results possible. Many things can cause bacteria to stain incorrectly and inconsistently. We will thoroughly cover why this happens and how to best avoid that dreaded corrected report and negatively impact patient care. We will also have an interactive session discussing difficult Gram stain decisions and troubleshooting. You never knew there was so much you didn't realize about Gram stains. Level: Intermediate

- Describe the history and theory of the Gram stain.
- Identify the different staining techniques and instruments.
- Summarize why the Gram stain is so important to patient care and how to best maximize its use.
- Explain how to troubleshoot when the Gram stain doesn't react as expected.

## At A Glance: Tuesday September 13

## *Lecture 1: 8-9am Lecture 2: 10am-12pm Lecture 3: 1:45-2:45pm, and Lecture 4: 3-5pm*

7:00-8:00a	Registration	Main Lobby
8:00-9:00a	Lecture 1: "What are the current roles of AFB Smear Microscopy and TB NAAT in the Diagnosis and Management of Mycobacterial diseases" Max Salfinger Sponsored by Metasystems Group, Inc.	
9:00-10:00a	Coffee – Please take time to visit vendors in Exhibit Hall	Exhibit Hall
10:00a-12:00p	Lecture 2: From Culture to Bedside – Practices That Work Katherine Perez Burroughes (bioMerieux) Brandon Dionne (Brigham & Women's Hospital) David Kubiak (Brigham & Women's Hospital) Minkey Wungwattana (Maine Medical Center) Sponsored by BioMerieux	
12:00-12:45pm	Lunch	Prescott Room
12:45-1:45p	Dessert and coffee in Exhibit hall with our Vendors	Exhibit Hall
1:45-2:45p	Lecture 3: Microbiology Automation: Helping Laboratories Survive – and Thrive – in a Brave New World Terri Riddle (Beckman Coulter) Sponsored by Beckman Coulter	
2:45-3:00p	Business meeting	
	Lecture 4:	

NACMID's Board of Directors and Members would like to extend a HUGE THANK YOU to our 2022 Sponsors and Exhibitors!!

## Tuesday- September 13, 2022

## Lecture 1 (8:00am to 9:00am)

## What are the Current Roles of AFB Smear Microscopy and TB NAAT in the Diagnosis and Management of Mycobacterial Diseases



After a brief description of the tuberculosis (TB) epidemiology, especially drug-resistant TB, and the epidemiology of nontuberculous mycobacterial (NTM) lung disease, the presentation will focus on suggestions for improvement of AFB smear microscopy. A second focus will address the slow uptake of the TB nucleic acid amplification test (NAAT), a test which was FDA approved 25 years ago. Besides the rule-in aspect for diagnosing TB, it is also important to use the TB NAAT as a rule out assay for TB suspects in airborne infection isolation. As a study from San Francisco in 2018 has shown, the institution can save millions of dollars when using TB NAAT for rule-out indication in TB suspects, thus releasing patients with a negative TB NAAT earlier. As a son of a farmer, the late Everett Rogers studied how some farmers in his native Iowa adopted new tools, seeds, and methods faster than others. In 1962, he published his original findings about the classification and frequency of the 5 adopter categories: innovators (2.5%), early adopters (13.5%), early majority (34%), late majority (34%), and laggards (16%) in his book Diffusion of Innovations. The savings in the San Francisco study should generate renewed interest in using NAAT more often in patients with possible TB. To which of Roger's categories do you or your hospital belong? Level: Intermediate

### **Objectives:**

- Describe improvements for the acid-fast bacilli stain
- Explain the difference of the rule-in versus rule-out indication for TB testing
- Discuss Roger's diffusion of innovation theory and how it relates to clinical microbiology.

## Lecture 2 (10:00am to 12:00pm)

## Antimicrobial Stewardship Panel: From Culture to Bedside– Practices that Work

Katherine Perez Burroughes, PharmD, BCIDP (BioMerieux) David W. Kubiak, PharmD, BCPS, BCIDP (Brigham & Women's Hospital) Brandon Dionne, PharmD, BCPS-AQ ID, BCIDP, AAHIVP (Brigham & Women's Hospital) Minkey Wungwattana, PharmD, BCIDP (Maine Medical Center)

Sponsored by BIO \$ FIRE >>> BIOMÉRIEUX

Presentation will represent various experiences and strategies from leading antimicrobial stewardship program team members working with the clinical microbiology laboratory in the inpatient setting to reduce turnaround time for optimal patient therapies and improve outcomes. **Level: Intermediate** 

- Explain how to leverage antimicrobial stewardship principles to communicate microbiology results to key stakeholders at the bedside.
- Demonstrate the utility of reflex testing in the clinical microbiology laboratory as a means to guide appropriate clinical decisions and patient care.
- Discuss how to integrate laboratory stewardship to reduce inappropriate management of common clinical syndromes including hospital acquired infections (HAIs).

## Tuesday- September 13, 2022

## Lecture 3 (1:45 to 2:45pm)

## Microbiology Automation: Helping Laboratories Survive and Thrive in a Brave New World

Terri Riddle, MBA, MLS(ASCP) (Beckman Coulter)

Sponsored by Scoulter

Microbiology laboratories are struggling to manage issues ranging from increasing staffing challenges to expanding antimicrobial resistance, not to mention unexpected pandemics. This presentation will provide an overview of current microbiology automation systems and the impact these solutions have made on patient care, quality, productivity and operations. **Level: Basic** 

### Objectives:

- Explain the key similarities and differences between current micro automation systems.
- Discuss the impact microbiology automation has made on patient care, quality, productivity, and lab operations.
- Describe the benefits and challenges of adopting microbiology automation systems.

## Lecture 4 (3:00pm to 5:00pm)

## Interactive Case Studies: Case Records of the UVM & BWH Microbiology Laboratories

## Jessica Crothers, MD (University of Vermont Medical Center) Sanjat Kanjilal, MD (Brigham & Women's Hospital)

In this case-based presentation we will review the strengths and limitations of various microbiologic testing methodologies and how they impact patient management. Exploring the strengths and weaknesses of various technologies, we will see how a collaborative and integrative approach to infectious disease diagnostics is often necessary to arrive at the correct diagnosis. Several cases will highlight diagnostic pitfalls, alerting technologists and practitioners alike to important issues in microbiologic testing. **Level Intermediate** 

- Describe the role of microbiologic testing in patient management of clinical infectious disease cases.
- Summarize the complementary role of various diagnostic methodologies.
- Recognize testing limitations and pitfalls.

## **NOTES:**

PLEASE REMEMBER

TO RENEW YOUR NACMID MEMBERSHIP THIS YEAR!

\*\*\*This year only, ONE YEAR MEMBERSHIP = FREE FOR ALL!\*\*\*

Become a member at www.NACMID.org/membership or fill out form on next

page and mail it in to us.

TAKE ADVANTAGE OF THE EDUCATIONAL BENEFITS THAT WE HAVE TO OFFER, AT RATES FAR LOWER THAN OTHER ORGANIZATIONS.

CONSIDER THE BENEFIT OF CONTINUING EDUCATION AND NETWORKING IN PROXIMITY TO YOUR HOME AND PLACE OF EMPLOYMENT!

See NACMID website for more information.

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## NACMID MEMBERSHIP APPLICATION FORM

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\_\_\_\_Please check if we have your permission to email announcements. We will NOT give out your email address without your permission; you will ONLY receive important NACMID updates, schedule changes, cancellations, etc.

\_\_\_ One year - FREE for 2022
\_\_\_ Five years \$125.00

Note: You may also become a member at www.NACMID.org/membership !!!

Please make your check payable to NACMID and mail to: Maureen Collopy 15 Hamilton Street Dover, NH 03820



## Northeast Association for Clinical Microbiology and Infectious Disease

NACMID was organized in the spring of 1983 and formally incorporated as a non-profit organization on July 1, 1983. The purpose of the association is to promote scientific knowledge of clinical microbiology and infectious diseases. All board members and committee members are volunteers who donate their time to furthering education and passion for Microbiology professionals in New England. Interested in volunteering with us? See one of the members below for more information or fill out the form on the next page and mail it in to us!

NACMID serves all of New England and New York and membership is open to anyone interested in Clinical Microbiology and Infectious Disease. Annually all states come together for a two-day program featuring General Sessions of various topics.

Continuing changes in our field, including the work environment, government regulations, technology, and newly emerging pathogens, make continuing education for all microbiologists a necessity. We are proud to provide high quality, low-cost continuing education to laboratory professionals. We provide ASCP continuing education units (CEUs) to participants of all local and annual meetings.

Membership in NACMID is open to anyone interested in Clinical Microbiology or Infectious Disease. Annual membership is normally only \$30.00, but this year we are offering it to anyone for FREE!

Please join or renew your membership today with the enclosed membership application with the meeting registration form on page 16.

## **NACMID Executive Board 2022:**

President	Cynthia Astolfi
Treasurer	Maureen Collopy
Secretary	Rebecca Zaffini

## **Committee Membership Boards 2022:**

Continuing Education	Debra St. George
Development	Shoolah Escott
Exhibits	Donna Piacitelli
	Andrew Berens
Finance	Shoolah Escott
Funding	Cynthia Astolfi
Future Sites	Maureen Collopy
	Martha Wilson
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	Martha Wilson
Membership	Kristen Palladino
Program	Andrew Berens
_	Martha Wilson
Proctor	Colleen Dolan
Registration	Kristen Palladino
-	Rebecca Zaffini
Social Media	Ashley Gasinowski

## We invite you to become involved! Join a Committee, Help out at our Annual Meeting; Become a Contributor!!

	Complete and mail this form to:				
			Maureen Collopy		
		15 Hamilton Stre	et Dover, NH 0382	0	
Name	9				
Home	e Address				
City_	Sta	te Zip _	Phor	ne ( )	
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I I		about duties, functio	ons and time comm	nitments of the position(s) checked	
	I prefer to be contacted	by: D phone	🗌 email		
	COMMIT	<u>TTEES</u>		ELECTED POSITIONS	
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## CONFERENCE REGISTRATION!

\*\*CONSIDER AN INSTITUTION PASS\*\*

NACMID offers your institution the opportunity to purchase an institution pass for the Workshops and General Sessions

## The Institution Pass covers:

- ✓ Workshops and General Sessions
- ✓ All Breaks
- ✓ Two lunch tickets (different days or same day)
- ✓ ASCP CEU's for both attendees

The **institution pass** allows two people from one institution to share a two-day registration. They can each come separate days or they can both come on the same day. Please indicate on the registration form the name and day each person will be attending.

Registration materials (including name badges, masks, and attendance certificates) will be ready for each participant on the day of their arrival. We hope this will provide you with more flexibility in scheduling people to attend Our Annual Meeting.

**Parking**: Vouchers will be available for purchase (\$6.00/day) **CASH ONLY** at the NACMID Registration Desk. You must purchase parking at the NACMID desk for this discounted parking rate!

## YOU MAY NOW REGISTER ONLINE AT:

## www.NACMID.org/2022-conference

## Pricing is as below:

<b>Registration Options</b>	NACMID Members	Non-members	Students
Institution Pass	\$195/ two attendees		
Two Day Registration	\$160	\$210	\$40
(one person)			
One Day Registration	\$110	\$145	\$20
(one person)			
Parking	Hotel: \$6 per day (cash only) & \$15/ overnight		
	Foundry Place (3 blocks away): \$1/ hour		

## Hotel and Room Information



**The Sheraton Portsmouth Harborside Hotel** is pleased to be the host hotel for the Northeast Association for Clinical Microbiology and Infectious Disease 2022 Conference.

To receive the hotel room GROUP RATE, you must mention NACMID at the time your reservation is requested.

**To guarantee a room,** your reservation must be placed no later than **August 22, 2022.** Reservations placed after 5:00PM on the cut-off date will be accepted on a *space available* and *rate available* basis.

Single: \$189.00

**Double:** \$189.00

Note: Rates apply based on the number of adults in each guest room. All guest room rates are quoted exclusive of applicable state and local taxes which are currently 8.5%.

Check-in: 3:00 PM Check-out 12:00 PM

Note: Guest room rates will be offered: **two (2) days prior and two (2) days after** the meeting dates **subject to availability** of guest rooms at the time of reservation.

Call the Sheraton Portsmouth **WELL BEFORE August 22, 2022** at: 603-431-2300 or 866-627-7138 for best availability of a room.

## Hotel Address: The Sheraton Portsmouth Harborside Hotel 250 Market Street, Portsmouth, NH 03801

For ADA requirements and special food arrangements, please contact Marty Wilson at least two weeks before the meeting: ashland254@comcast.net

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NACMID: THIRTY FOURTH ANNUAL MEETING Sheraton Portsmouth Harborside Hotel Portsmouth, NH



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