QPRN presents:

North American Pain School

An Educational Initiative of IASP and ACTTION

Biggest Neglected Problems in Pain Research... and What To Do About Them

Program

June 23 – June 28, 2019
Chateau Montebello
Montebello, QC, Canada

www.northamericanpainschool.com

#NAPainSchool
Executive Committee

Prof. Jeffrey S. Mogil, Ph.D. (Director)
E.P. Taylor Professor of Pain Studies / Canada Research Chair in the Genetics of Pain (Tier 1) / Dept. of Psychology / Director, Alan Edwards Centre for Research on Pain, McGill University

Prof. Christine T. Chambers, Ph.D. (Assistant Director)
Canada Research Chair in Children’s Pain (Tier 1) / Prof., Depts. of Pediatrics and Psychology & Neuroscience
Dalhousie University and IWK Health Centre

Prof. Roger B. Fillingim, Ph.D.
Distinguished Professor, University of Florida College of Dentistry / Director, UF Pain Research and Intervention Center of Excellence

Prof. Petra Schweinhardt, M.D., Ph.D.
Adjunct Professor, Faculty of Dentistry and Alan Edwards Centre for Research on Pain, McGill University / Head of Research, Interdisciplinary Spinal Research, Department of Chiropractic Medicine, University of Zurich

Prof. Michael S. Gold, Ph.D.
Professor, Dept. of Anesthesiology
University of Pittsburgh School of Medicine

Coordination

Charles E. Argoff, MD.
Professor of Neurology, Albany Medical College / Director of the Pain Management Fellowship, Albany Medical Center

Dr. Erwan Leclair, Ph.D.
Coordinator of the North American Pain School / Coordinator of the Quebec Pain Research Network

Helene Beaudry, Ph.D.
Coordinator of the North American Pain School / Coordinator of the Quebec Pain Research Network
Vision of NAPS

The North American Pain School (NAPS) will bring together leading experts in the fields of pain research and management to provide a unique educational and networking experience for the next generation of basic science and clinical pain researchers. We offer opportunities for scientific education, professional development, and connections with peers in a setting far removed from the lab and steeped in the character and culture of Quebec.

Led by an Executive Committee of permanent faculty, NAPS will take place in the first weeks of summer to take full advantage of all that Quebec has to offer—from the Festival International de Jazz de Montreal (June 27-July 6, 2019) to nearby wilderness activities. The venue for NAPS will facilitate lectures (by both faculty and students) as well as intimate breakout conversations and offer an array of recreational opportunities.

Each year’s program will have a different theme, and will bring together approximately 30 trainees with six dynamic, internationally recognized pain investigators from around the world and NAPS permanent faculty for an intensive four-day workshop.
Dear Colleagues,

Welcome to NAPS! For our fourth installment, we have chosen the theme “Biggest Neglected Problems in Pain Research... and What To Do About Them”. Every NAPS is designed to be multidisciplinary, and to focus on career development as well as science, but we try to pick a theme that is topical and relevant to guide us in our faculty invitations. This year’s theme is all about identifying where we as a field have failed so far, and how we can turn things around. Pain has been stuck in the “dark ages” for a little while now, amongst a large number of failed clinical trials. But there is a lot of reason for optimism, as powerful new techniques, concepts and initiatives are introduced. We’ve invited a very accomplished and exciting set of visiting faculty, who, in addition to participating in our workshops, have been asked to diagnose and solve the problem (!) for us. New additions to NAPS this year include an icebreaker game session on Sunday evening, new workshops on gender bias in pain research and writing for the public, and a new Executive Committee member, Dr. Charles Argoff. Back from last year are student talks, workshops on presentation skills, mentoring, psychophysical testing, “topic lunches”, “Ask-A-Patient” session, and the student debates. And of course the times when the true learning occurs, over meals, bonfires, the sugar shack, and our special outing on the last day of NAPS. I and the rest of the Executive Committee are beyond excited to meet and learn with a new cohort of pain’s best-and-brightest.

See you in June!

Jeffrey S. Mogil, Ph.D.
Director, North American Pain School
Visiting Faculty

Yves De Koninck, PhD.
• Professor of Psychiatry and Neuroscience, Laval University
• Associate Professor, McGill University
• Scientific Director, CERVO Brain Research Centre

Troels Staehelin Jensen, M.D., DMSc, Clinical Professor
• Professor of Neurology at Aarhus University Hospital, Denmark
• Professor of experimental and clinical Pain Research at Aarhus University, Denmark
• Director of the International Diabetic Neuropathy Consortium at Aarhus University, Denmark

Robert R. Edwards, Ph.D.
• Associate Professor, Depts. of Anesthesiology and Psychiatry, Brigham and Women’s Hospital, Harvard University

Judith A. Paice, Ph.D., RN.
• Professor, Dept. of Medicine (Hematology & Oncology), Feinberg School of Medicine, Northwestern University
• Director of the Cancer Pain Program in the Division of Hematology-Oncology, Feinberg School of Medicine, Northwestern University

Cheryl Stucky, Ph.D.
• Marvin Wagner Endowed Professor Cell Biology
• Director, Pain Division, Neuroscience Research Center, Medical College of Wisconsin
• Director, Neuroscience Doctoral Program

Jennifer Laird, PhD.
• Vice-President, Search & Evaluation – Pain & Neurodegeneration, Lilly Research Laboratories, Eli Lilly and Company

Patient partners

Billie Jo Bogden
• Co-founder and CEO of the PEOPLE (Patients of Eastern Ontario Pain Lifestyle Education)

Justina Marianayagam
• Medical Student, Northern Ontario School of Medicine
NAPSters (PRF-NAPS correspondents)

Biafra Ahanonu  
@syscarut  
Stanford University, USA / Supervisor: Dr. Mark Schnitzer  
“Gentlemen, you can’t have unpleasantness in here! This is the Pain Room!”

Titilola Akintola  
@Lola_carissa  
University of Maryland, USA / Supervisor: Dr. Luana Colloca  
“All in your head?: another look at placebos & facial pain.”

Catherine Paré  
@ImCatherinePare  
McGill University, Canada / Supervisor: Dr. Michael Sullivan  
“Everything hurts and I might be dying: The painful story of catastrophizing.”

Andy Tay  
@AndyTKP or @andytkp2017  
Stanford University, USA / Supervisor: Dr. Nicholas Melosh  
“Materials engineering for pain modulation.”

Sarasa Tohyama  
@SarasaTohyama  
University of Toronto, Canada / Supervisor: Dr. Mojgan Hodaie  
“A hole in your brain will not make your pain go away.”

Kyle Vader  
@vader_kyle  
Queen’s University, Canada / Supervisor: Dr. Jordan Miller  
“How can we ‘up our game’ when it comes to chronic pain management in primary health care?!”
**Ali Alsouhibani**  
@Ali_Alsouhibani  
Marquette University, USA / Supervisor: Dr. Marie Hoeger Bement  
“The effects of exercise on centrally mediated pain: does the tuning fork tell us enough?!”

**Abid Azam**  
@OneMindWanderer  
York University, Canada / Supervisor: Dr. Joel Katz  
“Pain is really stressful, so you should practice meditation, hypnosis, and stick needles in your ear.”

**Fleur Baert**  
@fleurasinfleur  
Ghent University, Belgium / Supervisor: Dr. Tine Vervoort  
“My child is in pain and it’s not fair!”

**Katrina Cordts**  
@katipoppert  
Oregon Health & Science University, USA / Supervisors: Drs. Anna C. Wilson & Amy Holley  
“Dear Diary: Having a parent with pain is a pain.”

**Yarim De La Luz-Cuellar**  
@atarii_cuellar  
Center for Research & Advanced Studies of the National Polytechnic Institute, Mexico / Supervisor: Dr. Vinicio Granados-Soto  
“Please, don’t tell my rats that my mom also has fibromyalgia…”

**Shahrzad Ghazisaeidi**  
@Shahrzadghs  
University of Toronto, Canada / Supervisor: Dr. Michael Salter  
“Pain, Sex and Epigenome!”
Nicholas Giordano
@dvcipm
Defense and Veterans Center for Integrative Pain Management, USA / Supervisors: Drs. Krista Beth Highland & Trip Buckenmaier
“Early application of regional anesthesia associated with improved patient-reported pain outcomes long after combat injury.”

Diana Goode
@Diana77892840
University of New England, USA / Supervisor: Dr. Derek Molliver
“Wait, mitochondria is more than just the powerhouse of the cell!”

Caroline Hinkle
@hinkle_carly
University of Maryland, USA / Supervisor: Dr. Raimi Quiton
“Optimists feel more pain, so go ahead and expect the worst.”

Kwo Wei Ho
@kwoweih0
University of Florida, USA / Supervisor: Dr. Roger B. Fillingim
“It hurts? Don’t blame the doctor.”

Mark Landy
@MarkLandy3
University of Texas Southwestern Medical Center, USA / Supervisors: Drs. Helen Lai & J. Johnson
“Tis but a scratch! A mere flesh wound won’t stop my pain-free mice.”

Grace Mosley
@runDRG
Icahn School of Medicine, USA / Supervisor: Dr. James Iatridis
“I couldn’t ask my rats to rate their back pain 1-10, so I poked them and looked at what genes were turned on instead.”
Jamie Moy
@JamieKMoy
University of Pittsburgh, USA / Supervisor: Dr. Michael S Gold
“Of mice and men: the excitable neuron.”

Chung Jung Mun
@Dr_Moon90
Johns Hopkins School of Medicine, USA / Supervisors: Drs. Claudia Campbell & P. Finan
“Sleep better and you will feel less pain and have less need for opioids.”

Helen Rodgers
@HMRodgers4
East Carolina University, USA / Supervisors: Drs. Kori Brewer & S. Clemens
“Morphine gets its mojo back, with a little help from its dopaminergic friends.”

Matthiew Sapio
@MattSapio
National Institutes of Health, USA / Supervisors: Drs. Andrew J. Mannes & M. Iadarola
“Jumpstarting pain drug development with a few petabytes of data”

Saurab Sharma
@link_physio
University Of Otago, New Zealand / Supervisors: Drs J. Haxby Abbott & M.P. Jensen
“Pain at the top of the world.”

Tayler Sheahan
@shea_tay
University of Pittsburgh, USA / Supervisor: Dr. Sarah E. Ross
“They’re going the distance: Spinal projection neurons that relay pain and itch to the brain.”
**Richard Slivicki**  
@Rslivicki  
Washington University in Saint Louis, USA / Supervisor: Dr. Robert W. Gereau  
“Peripheral cannabinoids for pain: reefer without the madness?”

**Larissa Strath**  
@larissastrath  
The University of Alabama at Birmingham, USA / Supervisor: Dr. Robert Sorge  
“When you eat bad food, your body gets mad and wants to hurt you.”

**Morika Williams**  
@MorikaWilliams  
North Carolina State University, USA / Supervisor: Dr. B. Duncan X. Lascelles  
“Wow, babies do actually feel pain! And believe it or not it can be a pain in the butt later on too.”

**Angel Torrado-Carvajal**  
@Angel_TC  
Massachusetts General Hospital, Harvard Medical School, USA / Supervisor: Dr. Marco L Loggia  
“Unveiling chronic pain biomarkers and objective diagnosis through means of artificial intelligence.”

**Pau-Yen Wu**  
@yenwuyen  
University of Kansas Medical Center, USA / Supervisors: Drs. Julie A. Christianson & D. Wright  
“How can stressful events ruin a mouse’s life.”
DAY BY DAY

SUNDAY, JUNE 23RD
MONDAY, JUNE 24TH
TUESDAY, JUNE 25TH
WEDNESDAY, JUNE 26TH
THURSDAY, JUNE 27TH
FRIDAY, JUNE 28TH
<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>2:00-5:00 p.m.</td>
<td>Registration and Check-in</td>
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<td>Lobby</td>
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<tr>
<td>4:00-5:00 p.m.</td>
<td>Welcoming Cocktail</td>
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<td>Foyer Outaouais</td>
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<tr>
<td>4:45-5:00 p.m.</td>
<td>Special Meeting for PRF-NAPS Correspondents</td>
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<td>Outaouais I</td>
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<td></td>
<td>Christine Chambers and Neil Andrews</td>
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<tr>
<td>5:00-5:30 p.m.</td>
<td>Opening Remarks</td>
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<td>Outaouais I</td>
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<td>-Director’s Welcome</td>
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<td>-Supporters’ Welcome</td>
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<td>-Introduction of Executive Committee</td>
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<td>-Debate Instructions and Teams</td>
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<tr>
<td>5:30-6:00 p.m.</td>
<td>Patient Partner Intros: Billie Jo Bogden, Justina Marianayagam</td>
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<td>Outaouais I</td>
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<tr>
<td>6:00-7:00 p.m.</td>
<td>Keynote Lecture: Yves De Koninck</td>
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<td>Outaouais I</td>
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<td>The challenge of analgesia: fighting a moving target</td>
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<td>7:00-8:30 p.m.</td>
<td>Dinner</td>
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<td>Aux Chantignoles</td>
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<tr>
<td>8:30-9:30 p.m.</td>
<td>Icebreaker Games</td>
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<td>Outaouais I</td>
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**Sunday, June 23rd**
Monday, June 24th

7:00-7:50 a.m. Yoga with Ondine
Foyer Outaouais

8:00-9:00 a.m. Breakfast
Aux Chantignoles

9:00-10:00 a.m. Meet the Executive Committee
Outaouais 1
Jeffrey Mogil, Christine Chambers,
Charles Argooff, Roger Fillingim,
Michael Gold and Petra Schweinhardt

10:00-10:30 a.m. Student Presentations (#1-3)
Outaouais I

10:30-11:00 a.m. Coffee Break
Foyer Outaouais

11:00-11:50 a.m. Robert Edwards
Outaouais I
Identifying and targeting multimodal mechanisms that shape treatment outcomes

11:50-12:20 p.m. Student Presentations (#4-6)
Outaouais I

12:30-3:00 p.m. Topic Lunch and Break
Aux Chantignoles
3:00-4:00 p.m.
Student Presentations (#7-12)
Outaouais I

4:00-4:20 p.m.
Coffee Break
Foyer Outaouais

4:20-5:10 p.m.
Cheryl Stucky
Animal models for pain in humans: their strengths, weaknesses and areas for improvement
Outaouais I

5:10-5:50 p.m.
Student Presentations (#13-16)
Outaouais I

6:00-7:30 p.m.
BBQ Dinner
Terrasse

7:30-9:10 p.m.
Workshop: Mentor versus Tormentor: Best practices in the mentoring relationship
Roger Fillingim
Outaouais I

9:15-11:00 p.m.
Bonfire
Meet in the lobby
Tuesday, June 25th

7:00-7:50 a.m. Yoga with Ondine
   Foyer Outaouais

8:00-9:00 a.m. Breakfast
   Aux Chantignoles

9:00-9:50 a.m. Judith Paice
   Outaouais I
   Cancer pain in the time of an opioid epidemic

9:50-10:30 a.m. Student Presentations (#17-20)
   Outaouais I

10:30-10:50 a.m. Coffee Break
   Foyer Outaouais

10:50-11:50 a.m. Student Presentations (#21-26)
   Outaouais I

12:00-2:30 p.m. Topic Lunch and Break
   Aux Chantignoles

2:30-4:10 p.m. Workshop: Reproducibility and Rigour in Pain Research
   Outaouais I / Outside
   Michael Gold
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<th>Time</th>
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<th>Location</th>
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<tr>
<td>4:10-4:30 p.m.</td>
<td>Coffee Break</td>
<td>Foyer Outaouais</td>
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<tr>
<td>4:30-5:10 p.m.</td>
<td>Student Presentations (#27-30)</td>
<td>Outaouais I</td>
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<td>5:10-5:40 p.m.</td>
<td>Ask-a-Patient</td>
<td>Outaouais I</td>
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<td>Billie Jo Bogden, Justina Marianayagam</td>
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<tr>
<td>6:00-7:30 p.m.</td>
<td>Dinner</td>
<td>Aux Chantignoles</td>
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<td>7:30-9:10 p.m.</td>
<td>Workshop: Interviewing and Diagnosing Pain Patients</td>
<td>Outaouais I</td>
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<td>Charles Argooff</td>
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<td>9:10-11:00 p.m.</td>
<td>Debate Preparation</td>
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Wednesday, June 26th

7:00-7:50 a.m. Yoga with Ondine
Foyer Outaouais

8:00-9:00 a.m. Breakfast
Aux Chantignoles

9:00-9:50 a.m. Troels Staehelin Jensen
Outaouais I
Risk factors for the development of persistent pain

9:50-10:20 a.m. Coffee Break
Foyer Outaouais

10:20-12:00 a.m. Workshop: Writing for the Public: How to Write About Your Research to People Without (and With) Science Degrees
Neil Andrews
Outaouais I

12:00-2:30 p.m. Topic Lunch and Break
Aux Chantignoles

2:30-4:30 p.m. Workshop: Pain Testing in Humans
Petra Schweinhardt
Quebec/Ontario

4:30-6:00 p.m. Coffee Break and Debate Preparation
Foyer Quebec/Ontario

6:00-7:30 p.m. Sugar Shack Dinner
Heritage Terrace

7:30-9:10 p.m. Workshop: Style Over Substance: Giving Better Talks
Jeffrey Mogil
Heritage
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<th>Time</th>
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<tr>
<td>7:00-7:50 a.m.</td>
<td>Yoga with Ondine</td>
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<td>Foyer Outaouais</td>
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<tr>
<td>8:00-9:00 a.m.</td>
<td>Breakfast</td>
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<td>Aux Chantignoles</td>
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<td>9:00-9:50 a.m.</td>
<td>Jennifer Laird</td>
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<td>Validating targets for novel analgesics: from a mechanism to a patient</td>
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<td>Outaouais I</td>
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<tr>
<td>9:50-11:30 a.m.</td>
<td>Workshop: Breaking Barriers: Gender, Unconscious Bias, and Your Career</td>
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<td>Christine Chambers</td>
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<td>Outaouais I</td>
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<tr>
<td>12:00-5:00 p.m.</td>
<td>Recreational Outing (lunch boxes provided)</td>
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<td>Meet in lobby</td>
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<tr>
<td>6:30-10:00 p.m.</td>
<td>Cocktails, Banquet, Student Debate and Graduation</td>
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<td>Foyer Outaouais</td>
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<td>10:00 p.m.</td>
<td>Live Band</td>
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<td>Foyer Outaouais</td>
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Thursday, June 27th
Friday, June 28th

Early birds
Lobby

8:00-10:00 a.m.
Aux Chantignoles

Breakfast

Before 12:00 noon
Lobby

Check-out

Shuttle departures:
(see shuttle schedule for specific details)
PRF-NAPS Correspondents Program

The Executive Committee of NAPS is dedicated to engaging participants and other pain researchers using all of today’s available tools. To this end, the IASP Pain Research Forum (PRF) has committed to sponsor five NAPS participants as special “PRF Correspondents.” The correspondents will reach others in the pain field through first-hand reporting online and through social media through content for the PRF website — including scientific session recaps, interviews with faculty, blog posts — and through live reporting on social media like Twitter. This initiative will benefit those outside of NAPS and help these five participants hone their science communications and writing skills.

Mr. Neil Andrews
IASP PRF Executive Editor / Science Journalist and Writer
Sponsors

ACTTION (Analgesic, Anesthetic, and Addiction Clinical Trial Translations, Innovation, Opportunities, and Networks)
www.acttion.org

Grunenthal GmbH
www.grunenthal.com

Chronic Pain Network – Strategy for Patient-Oriented Research
www.chronicpainnetwork.ca

Eli Lilly Canada
www.lilly.ca

Organizers

The International Association for the Study of Pain
www.iasp-pain.org

The Quebec Pain Research Network
www.qprn.ca
Supporters

NAPS appreciates support by:

The American Pain Society
www.americanpainsociety.org

The Canadian Pain Society
www.canadianpainsociety.ca

The Mayday Fund
www.maydayfund.org
Coordination team

Hélène Beaudry
naps@iasp-pain.org

Erwan Leclair, Ph.D.
naps@iasp-pain.org

www.northamericanpainschool.com #NAPainSchool

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