







2011 Awards Ceremony

RESNA 

Rehabilitation Engineering & Assistive Technology Society of North America

Agenda

- Student Scientific Paper Competition Awards:
Sharon E. Sonenblum, PhD
- Student Design Competition Awards:
Maureen Linden, MS
- RESNA Awards:
Jim Lenker, PhD, OTR/L, ATP

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2011 RESNA Student Scientific Paper Competition

Special thanks to our generous
sponsor:

Paralyzed Veterans of America



Student Scientific Paper Competition Reviewers

Scott Haynes

Cami Godsey

Chris Maurer

Karen Milchus

Sharon E. Sonenblum

Karen Troy

Thank you to this year's reviewers! Please contact Sharon to review for the SSPC next year: sharon.sonenblum@coa.gatech.edu

A nighttime photograph of a city skyline, likely Toronto, featuring the CN Tower and several illuminated skyscrapers. A crescent moon is visible in the dark sky. The city lights are reflected in the water in the foreground.

2011 RESNA Student Scientific Paper Competition

Winners

A Full Motion Manual Wheelchair Simulator for Rehabilitation Research

Larry R. Crichlow

Geoff R. Fernie

Jennifer L. Campos

Peter R. Grant

iDAPT, Toronto Rehabilitation Institute

University of Toronto



Predicting Energy Expenditure of Manual Wheelchair Users Using a Wearable Device

Shivayogi Hiremath and Dan Ding



Clinical Evaluation of the Intelligent Wheelchair System



Tuck-Voon How, MAsc



Rosalie Wang, PhD



Alex Mihailidis, PhD, PEng



Intelligent Assistive Technology and Systems Lab



UNIVERSITY OF
TORONTO

CANWHEEL



**NSERC
CRSNG**



University of Pittsburgh



Human Engineering
Research Laboratories

The Impact of Transfer Setup on the Performance of Independent Transfers: Preliminary Results

Maria Toro, Alicia Koontz,
and Rory Cooper

Human Engineering Research Laboratories
University of Pittsburgh
Department of Veterans Affairs



Use of a Laser Scanning System to Measure Limb Volume in Chronic Edema

Charles Vukotich, BME

Mary Jo Geyer, PT, PhD

Frank Erdeljac, CPO

*University of Pittsburgh School of Engineering
University of Pittsburgh School of Health and
Rehabilitation Sciences
Hangar Orthopedic Group*

A nighttime photograph of a city skyline, likely Toronto, featuring the CN Tower and several illuminated skyscrapers. A crescent moon is visible in the dark sky above the buildings. The city lights are reflected in the water in the foreground.

**2011 RESNA
Student Scientific Paper Competition**

Honorable Mention

Character Stroke-Based Text Entry for a Child with Cerebral Palsy and Low Vision

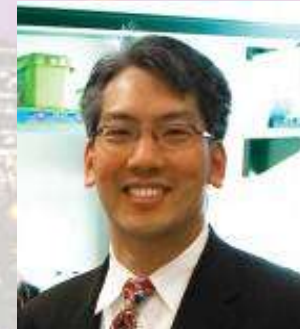
Brian Leung

- *Institute of Biomaterials and Biomedical Engineering, University of Toronto*



Tom Chau

- *Bloorview Research Institute, Holland Bloorview Kids Rehabilitation Hospital, Toronto, Canada*
- *Institute of Biomaterials and Biomedical Engineering, University of Toronto*



Institute of Biomaterials & Biomedical Engineering
UNIVERSITY OF TORONTO

Development of a Rehabilitation Robot: National Differences in Therapist Practice

Elaine Lu

Rosalie Wang

Jennifer Boger

Debbie Hebert

Alex Mihailidis

*Intelligent Assistive Technology & Systems Lab,
Department of Occupational Science & Occupational
Therapy, University of Toronto & Toronto Rehab Institute*

Navigation Assistance for Intelligent Wheelchairs

Pooja Viswanathan¹, Parnian Alimi¹, James Little¹,
Alan Mackworth¹, and Alex Mihailidis²

¹ *University of British Columbia*

² *University of Toronto*



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2011 RESNA Student Design Competition



A nighttime photograph of a city skyline, likely Chicago, with the Willis Tower prominently visible. The city lights are reflected in the water in the foreground. A crescent moon is visible in the upper right portion of the sky.

Student Design Competition Judges Panel

Mark Bresler
Barbara Crane
Doug Gayton
David Leverett
Maureen Linden
Babak Taati
Rosalie Wang

A nighttime photograph of a city skyline, likely Dubai, featuring the Burj Khalifa as the central focus. The city lights are reflected in the water in the foreground. A crescent moon is visible in the upper right portion of the sky. The text is overlaid in the center of the image.

**2011 RESNA
Student Design Competition
Honorable Mention**

The “Hummer”: A Vocal Cord Vibration Switch



Elaine Lu and Julie Chan
Queens University

IpsiHand: Direct Recoupling of Intention and Movement



Sam Fok, Raphael Schwartz, Mark Wronkiewicz,
Charles Holmes, Jessica Zhang,
Nathan Brodell, and Thane Somers

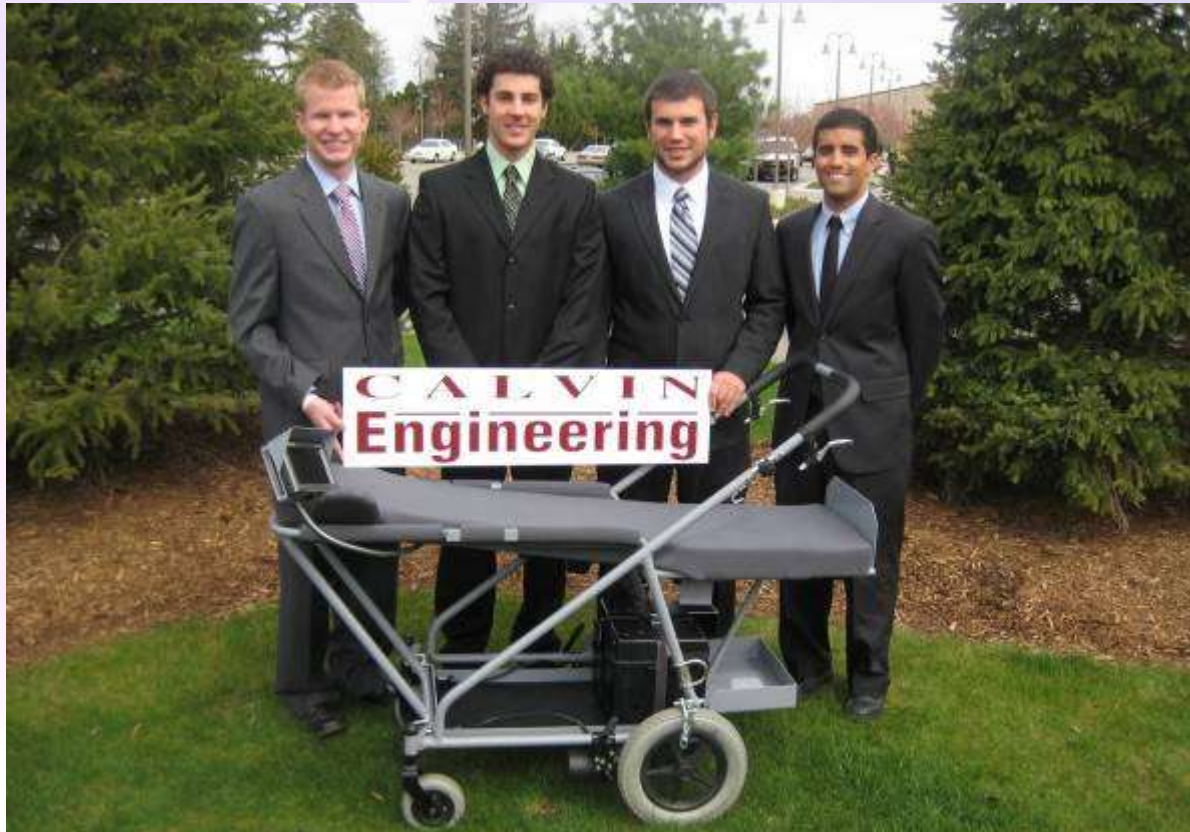
Washington University, St. Louis

Rockstar Guitar Stand



Rachel Belzer, Kristine Brown,
Brendan Moore, and Al Samost
Duke University

Achieving Mobility

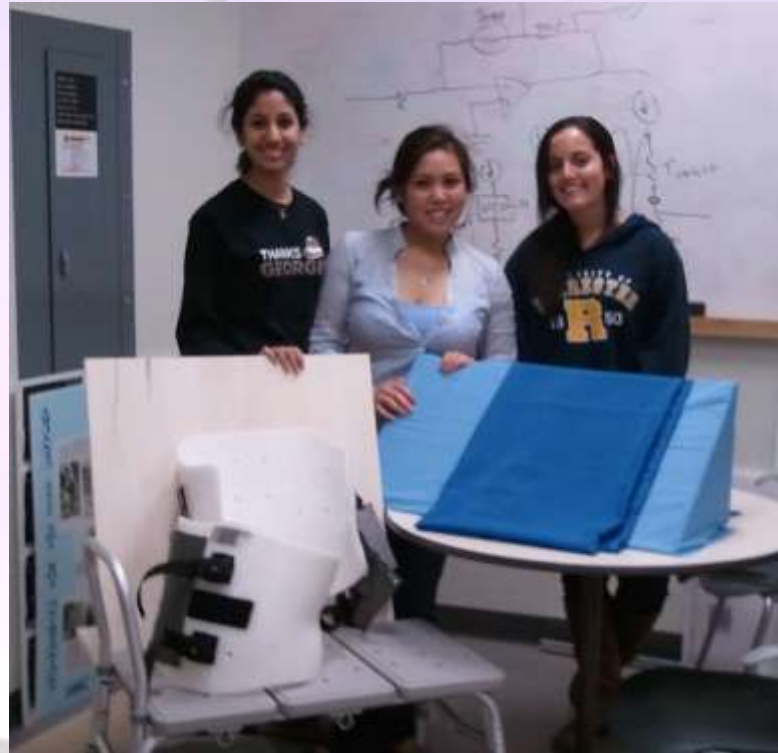


Dan Evans, Matt Last,
Matt Rozema, and Rob VanderVennen
Calvin College

A nighttime photograph of a city skyline, likely Dubai, featuring the Burj Khalifa as the central focus. The city lights are reflected in the water in the foreground. A crescent moon is visible in the sky. The text is overlaid in the center.

**2011 RESNA
Student Design Competition
Winners**

Postoperative Bracing Solutions



Swapna Kumar, Jacy Bulaon,
and Frances Bell

University of Rochester

The Equilibrator - A Recreational Approach to Balance Therapy

Drew Berger, Matt Jones, and Michelle Pyle

Rice University



Team Electric Slide: Electrical Outlet Assistive Device



Brennon Cucullu, Rae Henson, Katie Simmons,
and Chris Garcia
Louisiana Tech

The PushTracker: An Activity Monitor for Manual Wheelchair Users



Jeffrey Turner and William Emfinger

Vanderbilt University

EasyShrink Heat Gun Safety Device



Michael Chao, Ian King, Esther Lee,
and Shengnan Xiang
Duke University

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A nighttime photograph of a city skyline, likely New York City, with the Empire State Building prominently visible. The city lights are reflected in the water in the foreground. A crescent moon is visible in the dark sky. The text is overlaid on this background.

Rookie Award

RESNA "Rookie" Awards recognize new members who have made significant contributions, provided leadership, and have made an impact to RESNA during their first several years of participation.



Rookie Awardees

Jennifer N. Boger, MASc

Michael Boyce

Rookie Award



Jennifer N. Boger, MASc

for her outstanding contributions and
commitment as a new member of
RESNA

Rookie Award



Michael Boyce

for his outstanding contributions as a
new member of RESNA

Certificate of Appreciation

Recognizes a RESNA member or non-member for a special one-time activity benefiting either RESNA or the fields of rehabilitation or assistive technology

Certificate of Appreciation Awardees

Michael A. Babinec, BS, OTR/L ABDA, ATP

Elizabeth Cole, BA, MSPT

Kay Ellen Koch, OTR/L, ATP

Linda Elsaesser, PT, ATP

Jamie Arasz, ATP

Jennifer N. Boger, MASc

Lauren Rosen, PT, MPT, MSMS, ATP

Sue Redepenning, OTR/L, CDRS

Lori Nicolini, PT, ATP

Frank D. Puckett, PhD, CRC, ATP

Certificate of Appreciation Awardee



**Michael A. Babinec, BS,
OTR/L ABDA, ATP**

for his efforts and contributions as
a Member of the Board of Directors

Certificate of Appreciation Awardee



Elizabeth Cole, BA, MSPT
for her efforts and contributions as
a Member of the Board of Directors

Certificate of Appreciation Awardee



**Kay Ellen Koch, OTR/L,
ATP**

for her efforts and contributions
as a Member of the Board of
Directors

Certificate of Appreciation Awardee



Linda Elsaesser, PT, ATP
for her efforts and contributions as
Chair of the Education Committee

Certificate of Appreciation Awardee



Jamie Arasz, ATP

for her efforts and contributions as
Chair of the SIG Committee

Certificate of Appreciation Awardee



Jennifer N. Boger, MASc
for her efforts and contributions as
Chair of the Cognition & Sensory
Loss SIG

Certificate of Appreciation Awardee



**Lauren Rosen, PT, MPT,
MSMS, ATP**

for her efforts and contributions as
Chair of the Wheeled Mobility &
Seating SIG

Certificate of Appreciation Awardee



**Sue Redepenning, OTR/L,
CDRS**

for her efforts and contributions as
Chair of the Occupational Therapists
PSG

Certificate of Appreciation Awardee



Lori Nicolini, PT, ATP

for her efforts and contributions as
Chair of the Physical Therapists PSG

Certificate of Appreciation Awardee



**Frank D. Puckett, PhD,
CRC, ATP**

for his efforts and contributions as
Chair of the Educators PSG

Distinguished Service Award

Recognizes a RESNA member for his/her sustained contributions and service to RESNA and the fields of rehabilitation engineering or assistive technology

A nighttime photograph of a city skyline, featuring the CN Tower prominently in the center. The city lights are reflected in the water in the foreground. A crescent moon is visible in the upper right portion of the sky.

Distinguished Service Award

Denis Anson, MS, OTR/L

Lawrence W. Schneider, PhD

Linda Szczepanski, CMP

Distinguished Service Award



Denis Anson, MS, OTR/L
for his efforts and contributions in
RESNA's Computer Tech Lab since
1990

Distinguished Service Award



**Lawrence W. Schneider,
PhD**

for his efforts and contributions in
setting wheelchair transportation
safety standards

Distinguished Service Award



Linda Szczepanski, CMP

for her efforts and contributions as
RESNA's Volunteer Coordinator since
1997



Orlie, the RESNA Volunteer Mascot

A background image of the Toronto skyline at night, featuring the CN Tower and various skyscrapers with lights reflecting on the water.

Sam McFarland Memorial Mentor Award

Recognizes a RESNA member who has influenced, counseled, and nurtured others in the fields of rehabilitation engineering or assistive technology

A background image of the Toronto skyline at night, featuring the CN Tower and various skyscrapers illuminated against a dark sky, with their lights reflecting on the water in the foreground.

Sam McFarland Memorial Mentor Award

Marcia J. Scherer, PhD, MPH

Sam McFarland Memorial Mentor Award



**Marcia J. Scherer, PhD,
MPH**

for her generous efforts in mentoring
students, colleagues, and friends

Hall of Fellows

- The **RESNA Hall of Fellows** recognizes RESNA Fellows for their significant contributions to the field of assistive technology and to the RESNA organization.
- The **RESNA Hall of Fellows** is a record of Fellows' achievements to inspire all generations of RESNA members and the general public.

Hall of Fellows

- Photographs in the registration area
- On the RESNA website



RESNA Hall of Fellows

The **RESNA Hall of Fellows** recognizes RESNA Fellows for their significant contributions to the field of assistive technology and to the RESNA organization.

The **RESNA Hall of Fellows** will maintain a record of Fellows' achievements for future generations of RESNA members and the general public.

Chronology Listing

 James L. Johnson, MSSE	 James W. Kelly, MS, CCE	 Patrick J. Jordan, MS, BE	 Victor Swartz, PE
 Mary G. Brown, BEJ	 David R. Johnson, MS	 James J. Green	 Stanley J. Graham, JD
 Glenn L. Cooper, PE	 Robert L. Cook, PE	 Roy A. Elmer, PE	 Deborah Stone, MS, CCE
 Mark Powers, PE, PC	 James A. Potts, PE	 Ronald G. L. Smith, MS	 Bill Thomas, MS, PE, PEI, BE
			

Fellow Award

RESNA Fellow Awards recognize members who have made long term and substantial contributions to the fields of rehabilitation or assistive technology as well as significant contributions to RESNA.

Fellow



Cathy Bodine, PhD, CCC-SLP

for her many efforts in the field of Rehabilitation Technology, and her commitment and significant contributions to RESNA



Helping other researchers



Thanks to our Déjà Vu Rendezvous Sponsors

<p>Gift Sponsors</p> <ul style="list-style-type: none"> BE and Sara Cafe Cater, Roma and Associates CPM Company CRJ, Associates Enders Electric GE Johnson Construction Greiner Electric Hensel Phelps Construction Hercules Industries Interlock Communications Lynick Electric McGrow HD Ray and Vicki Nierby RK Mechanical Swadlow Construction Talavage Insurance Trautman & Shreve Wholesale Specialties 	<p>Design Sponsors</p> <ul style="list-style-type: none"> ABJ Consultants Adams County Plumbing & Heating Adelman & Peterson Construction BCSR Engineering Brookline Plumbing & Heating Calcan Construction Dynalastic Company Baron Sales and Service E-Light Electric Services Hargrove Enterprises Flood & Peterson Insurance Forsman Pecran Lakewood Electric, Co., Inc. The Lighting Agency Milander White Construction Mortenson Construction Phase 2 Company Sturgeon Electric Swenson Builders UMB Bank US Engineering Wells Fargo 	<p>Professional Sponsors</p> <ul style="list-style-type: none"> Ace Mechanical Equipment Anderson & Hastings Beck Construction Bock Roofing Bonica C&O Insulation Colorado Mechanical Insulation Concrete Frame Associates Contractor Supply Coverage Technologies Cummins Rocky Mountain Design Mechanical Diversified Builders Bay Line Galleon Corporation Gourmet Fine Catering GH Propp Construction HD Supply Haynes Mechanical Systems Burnham Systems IMA of Colorado JE Dunn Construction JPL Constructors Johnson Controls Kenny Electric Lite Schmitt & Company LONG Building Technologies McClure-Hill, Inc. Match One MediaLogic Metropolitan Glass M-Sch Mechanical Technologies Network Insurance Services PCL Construction Petco Pump Sales PVC Specialists Raich Construction Rocky Mountain Pressbox SEM Architects Structural Consultants Turbine Rentals Trane Trial Plumbing Wagner Equipment Web Electric Group Western Mechanical Selkirk White Cap Construction Supply
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3rd

Déjà Vu
RENEZVOUS

BUILDING COLORADO.
Yesterday. Today. Tomorrow.

Cathy fundraising



Always willing to suffer for the organization, here Cathy feigns interest in the nature of I-beam truss design.



“Wow, I’ve been waiting for 3 hours to meet her - and I’m next in line!
I am so jazzed right now!”



Like most of us, Cathy is not in this field for the money. Here we see her supplementing her income working part time as golf pro at Denver Country Club.



?



Cathy with her favorite beverage



Cathy with another favorite beverage



Cathy calling the university finance office about status of grant routing.



Cathy hearing they can't find it!



Cathy upholding the tenet that speech pathologists are always the best dressed at the conference.



Cathy Bodine, RESNA Fellow

Fellow



Anita Perr, MA, OT, ATP
for her many efforts in the field of
Rehabilitation Technology, and her
commitment and significant
contributions to RESNA

Fellow



**Paul J. Schwartz, MSIE,
ATP, RET, CPE**

for his many efforts in the field of
Rehabilitation Technology, and his
commitment and significant
contributions to RESNA







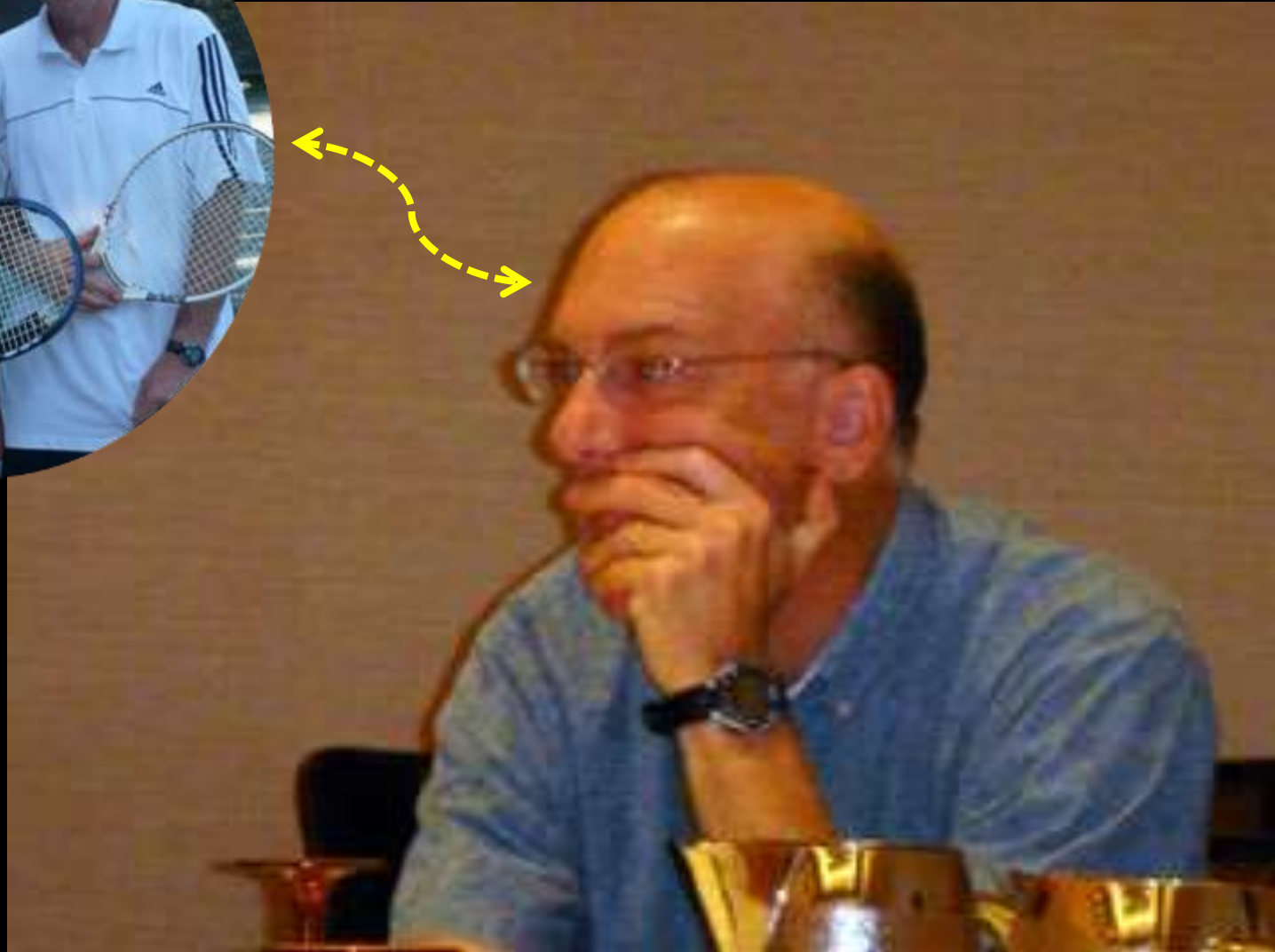


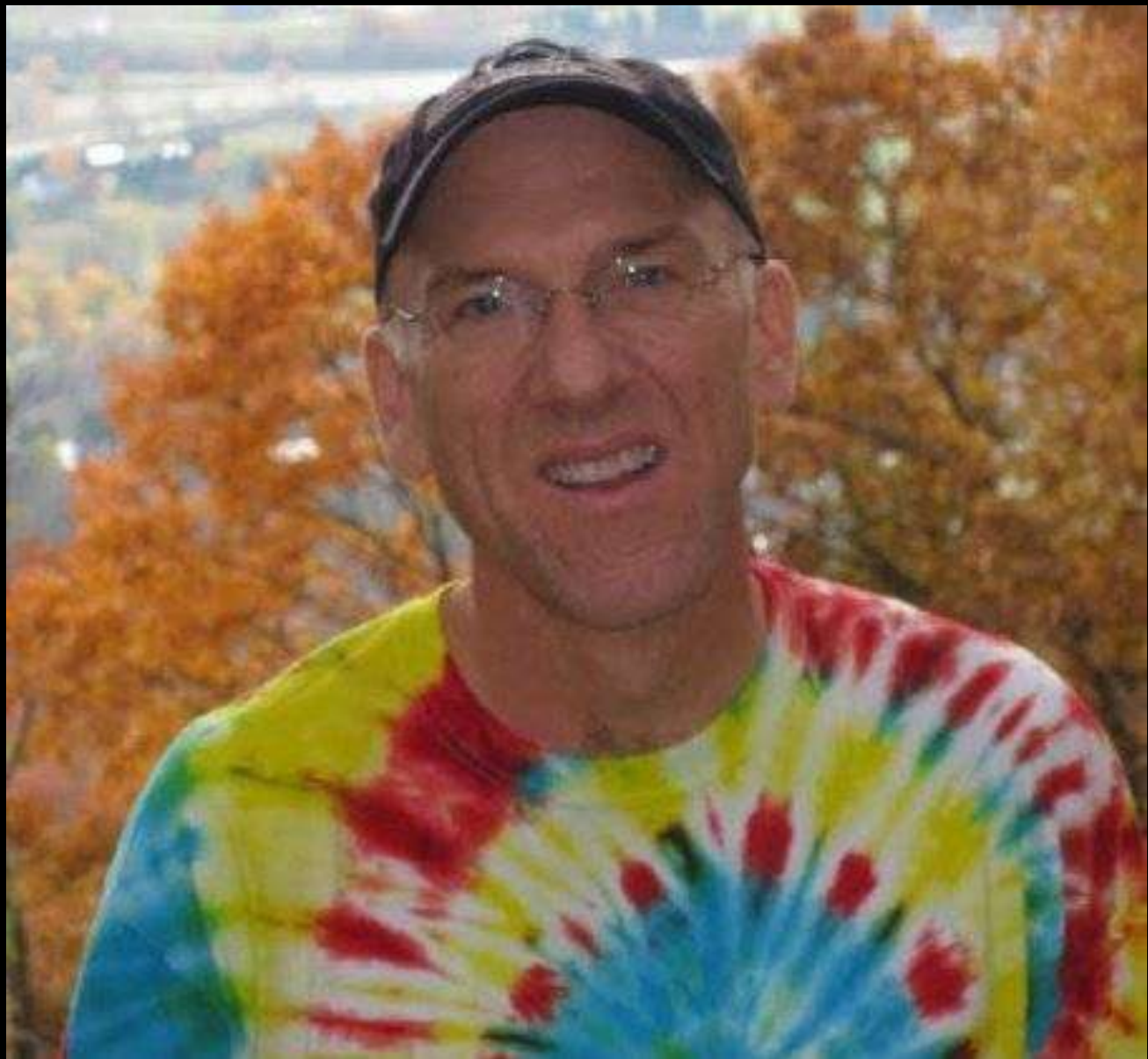


Contact stress



RESNA
RECEIPT\$

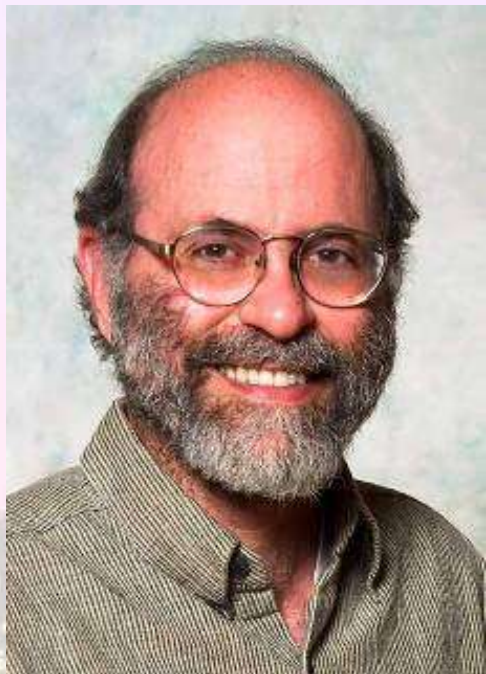








Fellow



Ray Grott, MA, ATP, RET
for his many accomplishments in the
fields of Rehabilitation Engineering
and Assistive Technology, and his
generosity of contributions to
RESNA and its members



Awards Committee



:

- Al Cook
- Heidi Koester
- Jim Lenker
- Caren Sax, Chair
- Dave Jaffe



RESNA Office:

- Nell Bailey





Baltimore Waterfront from the Marriott Hotel

Start planning now to attend...

RESNA 2012



June 28 - July 3, 2012 • Baltimore, MD
Baltimore Marriott Waterfront

Bring the family. There are lots of wonderful things to see and do — Orioles baseball, Inner Harbor, Science Museum, Fells Point and much more!

RESNA 2012 promises to be THE greatest event for learning about advances in assistive technology and rehabilitation engineering



A nighttime photograph of the Toronto skyline, featuring the CN Tower prominently on the left. The city lights are reflected in the water in the foreground. A crescent moon is visible in the dark sky on the right side. The text "We are finished" is overlaid in a red, cursive font on the left side of the image.

We are finished

C'est fini