Welcome to the latest issue of ‘The View From Puget Sound’. It is written with the goal of keeping our colleagues, staff and graduates informed about the UW Medicine Department of Neurological Surgery.

In shining the spotlight upon one of our department’s most highly interactive, collaborative programs, I would like to mention several exciting upcoming Grand Rounds speakers.

In June, we will welcome one of our illustrious graduates as Visiting Professor, Professor Matt Howard, Chair of Neurosurgery at the University of Iowa. Professor Howard is a renowned surgeon/scientist who will not only describe his research work but reflect on his academic career. He will be paired that day with his mentor, our own Professor George Ojemann, arguably one of the foremost cognitive neuroscientists of our time, and a beloved mentor to almost 4 decades of our graduates. Professor Ojemann will talk about his career long pursuit of understanding the neurophysiology and function of the cerebral cortex.

Lastly in late June during our graduation week, we will welcome Sir Henry Marsh, a senior consultant neurosurgeon at the Atkinson Morley Wing at St. George’s Hospital, one of the country’s largest brain surgery units. He is one of our residents’ favorite educators and the director of the much heralded, unique British-American UW Neurological Surgery training program. Professor Marsh has been bestowed as Commander of the Order of the British Empire (CBE) for his charity work around the world. This amazing effort can be viewed on the Emmy award winning documentary ‘English Surgeon’.

Sincerely,
Richard G. Ellenbogen, M.D., F.A.C.S.
Professor and Chairman, Department of Neurological Surgery
The new University of Washington Institute for Stem Cell and Regenerative Medicine (ISCRM) is committed to the ethical pursuit of basic research to unleash the enormous potential of stem cells and thereby develop therapies and cures. The UW and its affiliated institutions, the Fred Hutchinson Cancer Research Center (FHCRC) and Children's Hospital, are widely regarded as world leaders in stem cell research and regenerative medicine. The underlying philosophy is to bring interdisciplinary strengths together, and to leverage basic research discovery to develop therapies.

The Department of Neurological Surgery Associate Professor Philip Horner, Ph.D. and Professor Robert Rostomily, M.D. have substantial research activities sited in the new ISCRM facilities located on the South Lake Union campus close to the Seattle Children’s Research Institute and the FHCRC. South Lake Union is a growing research hub for basic science discovery and biotechnology innovation in Seattle.

**Philip Horner, Ph.D.**

Dr. Horner’s lab is focused on the interaction between glial and neural cells following central nervous system challenge and aging. Specifically: 1) mechanisms of adult stem cell-derived lesion remodeling/repair and 2) role of gliogenesis and gliosis in neural degeneration and aging. The laboratory uses systems biology and cell and molecular techniques to decipher the cues that regulate gliogenesis in the developing and aging spinal cord, following spinal cord injury and in models of ALS and glaucoma. His research has been continuously funded by a combination of NIH and private foundation mechanisms since it was established in 2002. Over the past few years Dr. Horner’s lab has been developing preclinical data for transplantation if induced pluripotent stem cells in a clinically relevant model of
spinal, cervical contusion injury. Through this process he has been meeting with Europe Medicines Association (similar to the FDA in the United States) to discuss plans for a clinical trial and have designed and executed pre-clinical safety trial testing in requisite to meet EMA safety requirements for transplantation in humans.

**Robert Rostomily, M.D.**

As a practicing neuro-oncologist and Professor of Neurological Surgery, Dr. Rostomily is acutely aware of the devastating outcomes of GBM and the need for new therapeutic approaches and clinical trials. His research focuses on genetic abnormalities in gliomas, using both animal models and human tissue. His research laboratory investigates the biology of gliomas and has made important discoveries of the role of TWIST1 in human GBM invasion and the impact of aging on the malignant glial potential of neural stem/progenitor cells (NSPCs). In the course of these studies his lab has developed and published novel techniques for the quantification of glioma growth and invasion. His lab has unique experience in a broad range of animal glioma model systems including human xenotransplant with established cell lines and glioma-derived stem cells as well as syngeneic mouse glioma models derived from transformed NSPCs. Dr. Rostomily’s clinical and research expertise uniquely complements the exceptional team of investigators sited at ISCRM in pursuit of promising new approaches to GBM therapy.

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Dr. Robert Rostomily’s philosophy is the patient comes first and should be treated with respect and kept informed. He obtained his college degree at Yale University (where he also played Division I Football) and earned his medical degree at Case Western Reserve University in Cleveland. Dr. Rostomily also completed an internship and residency in neurological surgery at the University of Washington. He is board-certified in Neurological Surgery. His clinical interests include surgical management of tumors of the skull base, with special expertise in meningiomas, chordomas, and acoustic neuromas. Dr. Rostomily is the Co-Director of the Gamma Knife Center and the Acoustic Neuroma Team.
Clinical Advances...

Pipeline Embolization Device:

Harborview Medical Center First in Northwest

The UW Medicine Neurosciences Institute, already the region’s busiest service for intracranial aneurysms, has added a tool that neutralizes aneurysms’ threat of rupture more safely, and for a broader swath of patients.

The Pipeline Embolization Device (PED) is a braided, flexible metal tube delivered by catheter and seated in the artery from which the aneurysm emerges. The PED – or chain of PEDs, through the length of an oversize aneurysm – essentially re-creates the original vessel. Cut off from circulation, the aneurysm clots naturally and disappears.

The device poses a better option in cases of unruptured large, giant or wide-necked aneurysms.

Harborview Medical Center is second on the West Coast and first in the Pacific Northwest to deploy the PED, which the Food and Drug Administration approved this year. It has been used in Europe, Asia, and South America since 2009.

Traditional treatments – by open surgery and endovascular approach – have targeted the aneurysm itself: clamping off its flow or mass with clips, or placing thin, clot-inducing coils inside the sac.

In wide-neck aneurysms, though, coils can fail at a high rate. In bulbous aneurysms that protrude over a greater circumference of vessel, coils are inappropriate because they would block circulation. And coils, even when introduced with the deftest hands, always risk perforating the aneurysm.

Clips placed across an aneurysm’s neck can block it off. Clips, however, necessitate open surgery and are constrained to areas that surgeons’ instruments can reach.

(continued on next page)
"Neurosurgeons see [the PED] as a rare paradigm shift in attacking aneurysms," said Dr. Louis Kim, a neurosurgeon, UW Assistant Professor of Neurological Surgery, and soon to be named Chief of Neurosurgery at Harborview Medical Center. “With this device we are reconstructing the lumen within the normal artery. It’s an elegant way to transform a subset of unwieldy and difficult-to-access aneurysms into very straightforward cases.

“It will lower the risk of complications and probably have a higher rate of permanent fix, if you will, than previous approaches.”

The pipeline is exclusively for unruptured aneurysms. The device’s metal-alloy composition encourages formation of blood clots, so PED patients must be on blood-thinning therapy for one week before and 6 months after the procedure. Of course, blood-thinning in the setting of an acutely ruptured aneurysm is inadvisable. Those patients would still be candidates for coiling or clipping, Kim said.

The UW Medicine Neurosciences Institute’s surgeons and neuro-interventionalists (catheterization specialists) treat 250 to 300 intracranial aneurysms a year, most due to Harborview’s status as a regional acute stroke care center. Such volumes make the facility one of the nation’s busiest.

Dr. Laligam Sekhar, an internationally recognized skull-based vascular neurosurgeon, leads Drs. Raj Ghodke and Dan Hallam, interventionalists, and Dr. Louis Kim, dual-trained as a neurosurgeon and interventionalist.

By preventing an aneurysm from hemorrhage, the PED expands UW Medicine’s comprehensive care to prevent stroke and mitigate its effects.

To Refer a Patient or Learn More, Contact the UW Medicine Neurosciences Institute at (206) 744-9300
The UW Department of Neurological Surgery website is now available! The site has been created to keep you informed of research, education, training, clinical trials and advances within the field of neurological surgery.

http://neurosurgery.washington.edu/patientcare/patientinfo/articles/

New & Improved…
Physician Pager/Contact Posters
...Now Available

Department of Neurological Surgery Physician Pager/Contact posters are now available. Initial distribution is underway. To receive or order additional laminated posters contact Mary Gilbert at mmg@uw.edu

Grand Rounds…The Process…The Person…

Sharon Andrews has served as the UW Neurological Surgery Grand Rounds’ Coordinator for the past 5+ years and has been with the Department of Neurological Surgery for 22 years! Sharon is the person ‘behind the scene’ assisting Dr. Ellenbogen with the organization and structure of weekly speakers, Journal Club, visiting professors, compliance training, and special events.

Sharon strives to ensure our Grand Rounds comply with the UW School of Medicine Office of Continuing Education guidelines in order to provide attendees with CME credits.

We all know the person ‘behind the scene’ is often forgotten—except, of course, in the case of something being ‘not quite right’….Sharon meets it with a determined look, a bounce to her step, and a smile.

Anyone wishing to provide a Grand Rounds lecture or receive electronic notices please contact Sharon Andrews at 206-543-3570 or soa@uw.edu
As a friend or supporter of UW Medicine Department of Neurological Surgery maybe your desire is to help create new opportunities for the next generation of neurosurgeons. Or be a part of the next tremendous discovery that solidifies the UW Department of Neurological Surgery’s reputation as one of the top programs in the world. The truth is, there are many reasons to give...as we walk alongside our patients, our friends, and, at times, our family members we often do need to pause and reflect the gains made in neurological surgery. From the beginning of man...we continue to discover new ways to treat neurological diseases and disorders...through research...through education and clinical care...through you.

To Make a Gift
Support the Department of Neurological Surgery by making a donation that will help support patient and family-centered care, breakthroughs in medical research, and the training of tomorrow's neurosurgeons. Options include:

Neurosurgery Residency Fund
The future of neurological surgery will be determined by the doctors, researchers, and other medical professionals. Your gift will help the department support resident training.

Neurosurgery Research Fund
This fund provides support for research, resident training, and teaching programs in the Department of Neurological Surgery.

UW Neurosurgery Summer School Program
To support the UW Neurosurgery Summer School Program whose purpose is to expose students to sciences as potential future career paths.

Endowments are Forever
Depending on your individual passion or interest, your endowment will provide funds in perpetuity, can be focused or wide-ranging, and will support a purpose of your choosing. Distributions from endowments transform lives at the UW each year — those of students, faculty, researchers and of everyone participating in hundreds of programs and activities that enrich our community. Named Endowments: To create a new endowment with a name you choose, the UW has several options available.

Annual Support...Same Time Next Year!
When you make an annual gift to the UW, you can support your passion by directing your gift to any of more than 6,200 available funds. Whether or not you choose a specific fund your annual support helps the UW today and into the future.
Jeffrey G. Ojemann, MD:
The Department of Neurological Surgery has received (unofficial) notification by NINDS of *Neurosurgery Research Training Grant in Interdisciplinary Neuroscience (R-25)* funding for a 5-year period beginning 4/1/2012. This is one of only 13 NINDS neurosurgery training grants awarded nationally, of which 4 are located on the west coast.

Richard G. Ellenbogen, MD:
UW School of Medicine faculty members Dr. Richard G. Ellenbogen and Dr. Stan Herring have helped launch a new online course on sports concussions for healthcare professionals. The course, *Heads Up to Clinicians: Addressing Concussion in Sports among Kids and Teens,* is supported by the Centers for Disease Control and Prevention and the National Football League.

Pierre Mourad, PhD:
Dr. Mourad, Associate Professor of Neurological Surgery, has received a *State of Washington Life Sciences Discovery Fund Commercialization* award for his project entitled *Definitive Human Testing of Pain Localization and Quantification Based on Transcutaneous Acoustic Palpitation (TAP)*. His project is to conduct clinical testing of an ultrasound device that allows providers to identify the sources and extent of deep pain.

Richard Morrison, PhD:
Dr. Richard Morrison, Professor in the Department of Neurological Surgery ranks in the top 10% of NIH awards nationally.

Neurosciences Institute Names Kathy Derzinski Administrative Specialist

Kathy Derzinski has been selected by the UW Medicine Neurosciences Institute as the Administrative Specialist to assist, under the direction of Dr. Anthony Avellino, with the coordination and continued development of the Institute. Kathy notes her experience at Bell Laboratories, AT&T and Seattle Children’s Hospital helped to prepare her for this role. “Healthcare, education and research are the three areas that I resonate to the most, and here I am surrounded by all three.”

Kathy can be reached at derzik@uw.edu or 206-744-1874
In this issue, it is my pleasure to introduce Kris Lewis. Kris was born in Minneapolis and attended high school in Los Angeles, where he learned to enjoy cooking from his grandfather, a restaurateur and 1940s film noir actor. After moving back to Minnesota and earning a degree in Computer Science from the U of M, Kris left again in 2007 for the mild weather and natural beauty of the Pacific Northwest. Kris is quite the outdoorsman and last August, summited Mount Rainier for the first time, a goal he had wanted to achieve since he first saw the Mountain.

Kris joined the University of Washington in 2007, working on the grants team in the Department of Laboratory Medicine at UWMC. In this role, he gained experience in post award administration and IRB submissions, and occasionally helped out with IT support. He joined our department in August 2010 as a fiscal specialist and is responsible for the department’s financial processes including purchasing, travel reimbursements, and perhaps most importantly, payroll. We appreciate his dedication to detail! Kris also manages our website, providing all of the editing and IT expertise, and working closely with Jim Pridgeon on content development. He has been a key team member in developing the department’s social media strategy and will be essential in the implementation as well. While Kris mostly uses his IT knowledge for good, he has been known to pull a prank or two on fellow employees.

Kris provides excellent customer service to everyone he meets, is always willing to help with work outside of his own, and has been an outstanding addition to our fiscal team and department.

Kris spends his free time outdoors, working out, cooking with his wife, and reading about history and ancient cuisine. His next big goal is a hiking trip across Ireland, followed by a stay with his brother who is currently living in Bologna, Italy.

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**STAFF IN THE KNOW...**

**GRANT RELATED QUESTIONS?**

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**GRAND ROUNDS INFORMATION?**

SHARON ANDREWS
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**RESIDENCY PROGRAM INFORMATION?**

KELLY JAIN
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Upcoming Grand Round Lectures
…Mark Your Calendars
All lectures held on the UW Medicine-Harborview Campus in the Research & Training Building Auditorium
(300 Ninth Avenue, Seattle, WA)

GRAND ROUTNS 2012

APRIL 4, 2012: 7:00 – 9:00AM  RISK MANAGEMENT TRAINING
CLOSED SESSION – OPEN TO UW ONLY

APRIL 11, 2012: 7:00 – 8:00AM NEUROLOGICAL SURGERY JOURNAL CLUB
8:00 – 9:00AM NOOJAN KAZEMI, MBBS
Spine Fellow, UW Department of Neurological Surgery

APRIL 18, 2012: 7:00AM  SPINE LECTURE: K. DANIEL RIEW, MD
‘AVOIDING AND MANAGING COMPLICATIONS
IN CERVICAL SPINE SURGERY’

DANIEL RIEW, MD
Professor
Department of Orthopaedic Surgery
Chief, Surgical Spine Center
Director, Cervical Spine Institute
Washington University School of Medicine
St. Louis, MO

8:00AM NEUROPATHOLOGY LECTURE (TBA)

APRIL 25, 2012: 7:00 – 9:00AM M&M

MAY 2, 2012: 7:00 – 8:00AM NEUROLOGICAL SURGERY CASE PRESENTATION
8:00 – 9:00AM JEFFREY MAI, MD, PHD

MAY 9, 2012: 7:00 – 8:00AM NEUROLOGICAL SURGERY JOURNAL CLUB
8:00 – 9:00AM GUEST LECTURER—TO BE ANNOUNCED

MAY 16, 2012: 7:00 – 8:00AM YU SUN, MD:
‘Current Concepts of Cervical Spine Arthroplasty’
8:00 – 9:00AM NEUROPATHOLOGY LECTURE

MAY 23, 2012: 7:00 – 9:00AM ORAL BOARDS REVIEW
CLOSED SESSION – OPEN TO UW ONLY
Upcoming Grand Round Lectures—2012

…Mark Your Calendars

All lectures held on the UW Medicine-Harborview Campus in the Research & Training Building Auditorium
(300 Ninth Avenue, Seattle, WA)

MAY 30, 2012:  7:00 – 9:00AM  M&M

JUNE 6, 2012:  7:00 – 8:00AM  NEUROLOGICAL SURGERY JOURNAL CLUB
               8:00 – 9:00AM  NEUROPATHOLOGY LECTURE
               GORDANA JURIC-SEKHAR, MD, PHD
               Pathology Fellow, UW Department of Pathology

JUNE 13, 2012:  7:00 – 8:00AM  GEORGE A. OJEMANN, MD
                  VISITING PROFESSOR
                  8:00 – 9:00AM  MATTHEW A. HOWARD, III, MD

Professor George A. Ojemann received his doctorate at the University of Iowa College of Medicine. After completing his neurological surgery residency at University of Washington Affiliated Hospitals, he began a distinguished career as a neurosurgeon and researcher specializing in epilepsy. He is in demand as speaker at medical conferences around the world, and has held visiting professorships across the U.S., Canada, and Taiwan. His most recent book (co-authored with William Calvin), Conversations with Neil's Brain, has also been published in German and Dutch. He is Professor Emeritus of Neurosurgery at the University of Washington School of Medicine. He was the Lennox lecturer for the American Epilepsy Society in 2002. He has served as President of the American Academy of Neurological Surgery. He also has been a recipient of an NIH Javitts Award, a Distinguished Alumni citation from the University of Iowa, and an honorary Doctor of Sciences degree from the Medical College of Ohio.

Professor Matthew Howard joined the University of Iowa faculty in 1993 and has led the UI Department of Neurosurgery since it was created in 2001. He is an expert in neurosurgical treatment of epilepsy, and his cutting-edge research explores how the brain processes sounds and emotions. Dr. Howard also is active in the development of medical devices. He helped pioneer the invention of the Stereotaxis Magnetic Navigation System, which uses magnets to precisely guide surgical instruments through the human body.

Dr. Howard earned a bachelor of science degree in physics and biology from Tufts University in Medford, MA, and received a medical degree from the University of Virginia in Charlottesville. He completed his Neurosurgery Residency at the University of Washington in Seattle, including one year training at Atkinson Morley's Hospital in London, England.
Upcoming Grand Round Lectures—2012

...Mark Your Calendars

All lectures held on the UW Medicine-Harborview Campus in the Research & Training Building Auditorium
(300 Ninth Avenue, Seattle, WA)

**JUNE 20, 2012:**
7:00 – 8:00AM  **SPINE LECTURE: ORTHOPAEDIC FELLOWS**
8:00—9:00AM  **AMY LEE, MD**
Assistant Professor, UW Department of Neurological Surgery
SEATTLE CHILDREN’S HOSPITAL
Craniofacial, general neurosurgery, neurodevelopment, brain tumors, spine, MR

**JUNE 27, 2012:**
7:00 – 8:00AM  **M&M**
8:00 – 9:00AM  **SIR HENRY T. MARSH, MA, MB, BS, FRCS**

**Sir Henry Marsh** attended the Dragon School in Oxford and graduated with Honors in Medicine from London University. He is now the senior consultant neurosurgeon at the Atkinson Morley Wing at St. George’s Hospital, one of the country's largest specialist brain surgery units.

Professor Marsh specializes in operating on the brain under local anesthetic and was the subject of a major BBC documentary ‘*Your Life in Their Hands*’ in 2004, which won the Royal Television Society Gold Medal. He has been working with neurosurgeons in the former Soviet Union mainly in Ukraine with mentee neurosurgeon Igor Petrovich, since 1992 and his work there was the subject of the BBC Storyville film ‘*The English Surgeon*’ from 2007. He has a particular interest in the influence of hospital buildings and design on patient outcomes and staff morale; he has broadcast and lectured widely on this subject. He spends his spare time either making furniture or practicing neurosurgery in the Ukraine.

Would you like to receive electronic notifications and updates regarding UW Department of Neurological Surgery Grand Rounds?

Contact Sharon O. Andrews  soa@uw.edu
Department of Neurological Surgery Grand Rounds Coordinator


New Knowledge

2011-12 Publications (to date) by Drs. Phillip Horner, Louis Kim, and Robert Rostomily


GUIDELINE OF THE MONTH:
COMMUNICATION means that we treat all with whom we interact with respect. Effective COMMUNICATION improves the work environment and the patient experience.
HOW TO FIND US: UW MEDICAL CENTER

DRIVING DIRECTIONS TO UW MEDICAL CENTER
1959 N.E. Pacific St.
Seattle, WA 98195

FROM INTERSTATE 5
Take Exit No. 168B (Bellevue/Kirkland) onto (SR) 520.
Take the first exit off SR 520 to Montlake Boulevard N.E. Turn left onto Montlake Boulevard and continue north.

FROM THE EAST VIA STATE ROUTE 520 WESTBOUND:
Take the Montlake Boulevard exit.
Continue north on Montlake Boulevard and cross the drawbridge. At the traffic light, turn left onto N.E. Pacific Street. Turn right at the second "Patient Parking" directional sign onto N.E. Pacific Place, then immediately turn right into the Triangle Parking Garage, connected to the medical center via a pedestrian tunnel.

UWMC PARKING
SURGERY PAVILION PARKING GARAGE
This garage is located beneath the Surgery Pavilion and is primarily for surgery patients and their visitors. Enter the garage from N.E. Pacific Street, and turn left at the stop sign after passing the Emergency Department entrance.

TRIANGLE PARKING GARAGE
Underground parking garage located across N.E. Pacific Street from UW Medical Center.
Enter the garage from N.E. Pacific Place, one-half block west of Montlake Boulevard.
A pedestrian tunnel leads from the garage to the third (main) floor of the medical center.

Note: Light rail is coming to the University District, and Sound Transit has begun construction on the UW Station at Husky Stadium, which will open in 2016.
HOW TO FIND US: HARBORVIEW

Whether you are coming to see us for our Grand Round Lectures, as a visitor, or as a patient, you will find us at:

DRIVING DIRECTIONS TO HARBORVIEW CAMPUS
FROM INTERSTATE 5 NORTHBOUND
Exit at James Street, Exit 164A. Turn right (east) and travel to Ninth Avenue.
Turn right (south) on Ninth Avenue and go one block to Jefferson Street.
FROM INTERSTATE 5 SOUTHBOUND Exit at James Street, Exit 165A. Turn left (east) on James and travel to Ninth Avenue. Turn right (south) on Ninth Avenue and go one block to Jefferson Street.

HARBORVIEW PARKING
VIEW PARK GARAGE
The View Park Garage is located at the west side of Harborview between Alder and Jefferson streets. People with disabilities may park on Levels A, B and 1. Oversize vehicles may park on Level A at kiosk.

NINTH & JEFFERSON BUILDING PARKING
Underground parking also is available in the Ninth & Jefferson Building. The parking garage entrance is on the east side of the building, off of Terry Avenue, between Jefferson and James Streets. Parking is available 5:00 a.m. to 8:30 p.m. weekdays.