UPCOMING RFA MEETING

Lessons from the Past: Using Historic Cases to Teach Medical Professionalism and History

Robert Pinals, MD
Clinical Professor of Medicine

Thursday, December 8, 2011
12:00 pm – 1:30 pm
Rutgers Faculty Club, 199 College Ave, New Brunswick

The RWJMS Medicine Residency has had an educational program on Humanism and Professionalism since 1997. The life stories and illnesses of famous people have been used as illustrative links for some of the 24 topics explored in this program, and one of these will be presented. The topic, *Gender Bias in Medicine*, will focus on two women, the first a patient and the second a physician. Although they never met, both shared a disease association and a career suppressed by gender bias.

The Rutgers Faculty Club will have a special holiday lunch buffet, a culinary delight, available at a very reasonable price of $20 that includes both tax and gratuity. Payment for the lunch can be made at the meeting. All current and retired faculty and staff and their spouses and significant others are welcome to attend. Space is limited to 30 people, and the Rutgers Club requires the exact number attending prior to the date. Please RSVP to John Lenard (732-572-5023; lenard@umdnj.edu) by Monday, December 5 if you plan to attend.

Table of Contents

| The History of the Delaware-Raritan Canal by Vicki Chirco                  | page 2 |
| RFA Business Meeting                                                      | page 5 |
| Retiree Healthcare Coverage-Changes                                       | page 6 |
| News from Near                                                            | page 7 |
| News from Afar                                                            | page 8 |
| Heikkila Tribute and Lecture by Patricia K. Sonsalla, PhD                 | page 9 |
| In Memoriam                                                              | page 10 |
| Membership Application                                                    | page 11 |
Vicki Chirco gave a slide presentation of the history of the Delaware-Raritan Canal (D&R) from its creation to the present time at the Retired Faculty Association meeting on September 23, 2011. Ms. Chirco, a native of central New Jersey, grew up and attended school in East Brunswick where she currently resides. She received both her bachelor’s and master’s degrees in history at the University of Oregon where she focused her studies on the social history and material culture of the United States, the 19th century, historic preservation and the special contributions of women.

During her years at the University of Oregon she became interested in pursuing a career in the museum field and to that end worked at both the University's Art and Anthropology museums. Upon her return to the East Coast, she secured a position with the New Haven Colony Historical Society in New Haven Connecticut as their curator of photographs, a position she held for three years before returning to New Jersey. Prior to joining the staff at the park in December of 2000, she worked for several years as a web developer with a local graphic design firm.

Although she grew up only miles from the D&R, she did not become aware of the canal until later in life. Like so many others who use the park today, she became a semi-regular visitor and often walked the towpath long before she knew anything about the waterway’s rich past. Now as the park’s official historian, she has taken on the task of educating the public about the significant role the D&R played in both state and national history. This she does through offering a variety of public and school programs including walking and biking tours, outreach programs, presentations and special park events.

The History of the D&R Canal

Ms. Chirco presented the history of the Delaware-Raritan Canal from its creation in 1834 as a waterway for cargo vessels to the present time. Today it serves both as a water supply system and a venue for recreation. It is entered on the National Register of Historic Places and has over 60 miles of canal and a narrow strip of land on both banks as part of a state park.
The following was abstracted from the slides shown at the Retired Faculty Association meeting:

The D&R Canal was created as a link between the Delaware and the Raritan Bay that would expedite the transportation of goods between Philadelphia and New York. The expectation was that the canal would reduce transportation costs, thereby increasing profits to manufacturers and business owners.

Prior to the canal’s existence, overland travel between Trenton and New Brunswick was slow and tedious. Existing “Indian Paths” were improved as settlement in the area increased. The King’s Highway, later renamed the Lincoln Highway – Route 27 today – was a well-traveled road during the 18th century. By the 1770’s the Trenton and New Brunswick Turnpike Road – now known as Route 1 – was surveyed. When completed in the early 19th century, it offered a more direct overland route between the two cities. However, once the Delaware and Raritan Canal was completed in 1834, goods could be shipped between Philadelphia and New York in as little as two days – a huge improvement over the existing transportation options of the day.

The Creation of the Canal

On the same day in 1831, New Jersey granted the right to proceed with two different transportation projects in central New Jersey to two powerful interests, The Delaware and Raritan Canal Company and The Camden and Amboy Railroad and Transportation Company. This “Marriage Act” enabled the rival companies to pool their revenues and expenses. As a result both were able to proceed in earnest on their projects. Canvass White, known for his success with the Erie Canal project, was hired as the chief engineer.

The “Joint Companies,” as they came to be known, soon accelerated construction on both the railroad and the canal. They did not compete for business since each filled a different need; one transported passengers and light freight and the other, heavy freight.

The canal was dug by hand between 1830 and 1834. Many of the canal workers were migratory laborers including those of Irish decent who were paid $1/day for their efforts plus 25¢ for each stump excavated.

The D&R Canal was opened for business in June, 1834 at a construction cost of $2.8 million dollars. The length of the feeder was 22 miles from Raven Rock to Trenton while the main trunk of the canal was 44 miles from Bordentown to New Brunswick. A total of 60+ bridges were constructed as well as lock/bridge tenders houses, mule barns, stone-arched culverts, aqueducts, spillways, and dams along the Delaware River to regulate the supply of water to the feeder canal.

The canal operated successfully for almost 100 years. Its peak years were in the 1860’s and 70’s when the canal was used to ship Pennsylvania coal to New York City to feed its industrial boom. During this period over 80% of the total tonnage carried on the canal was coal. The presence of the canal stimulated business along its shores. For example, nearby deposits of clay attracted a brick works to the Rocky Hill/Griggstown area in the
1890s. The Atlantic Terra Cotta Factory obtained ownership in 1907. The factory was strategically located on over 100 acres along the D&R Canal and railroad spur line at Rocky Hill. It produced architectural ornamentation for such buildings as the Philadelphia Museum of Art and the Woolworth Building in New York City. At its height, over 300 workers were employed here.

**The Transformation of the D&R Canal**

After the 1870s the canal headed toward a slow decline in use as a vehicle for the transportation of goods. In 1869 the special privileges given to the Joint Companies from the State expired leaving them vulnerable to competing transportation interests (the railroad in particular). In 1893 the Pennsylvania Railroad, which - since 1871 - owned the lease for both the United New Jersey Railroad and the D&R Canal, expanded its main lines across New Jersey and the Canal operated at a deficit for the first time since opening.

In 1913 the connection between Pennsylvania’s Delaware Canal at New Hope and the D&R Canal at Lambertville was abandoned as Pennsylvania coal transportation had ceased for all intents and purposes via the canal network. After its usual winter hiatus, the D&R did not reopen for business in the spring of 1933. Three years later the State of New Jersey took over the canal and sold its water to the industries along its route. In 1936, much of the Trenton portion of the main canal was deeded to the city and filled in as part of a WPA project.

The canal’s “rehabilitation” was begun in order to convert it into an efficient water supply for the state - a job it still fills today. In 1944, wooden aqueducts were changed to concrete while all lock gates were removed and replaced with concrete dams and sluice gates. The conversion of the D&R from a transportation route to a water supply for the state saved it from an untimely demise. In the years before it became an official park – the mid-1930’s to the early 1970’s – locals who lived along its banks used it for recreation while the state maintained it as a water supply. In this 40 year period it slowly made the transformation from working canal to linear park. The towpath, no longer maintained and carefully manicured, soon became overgrown with trees, wild flowers, bushes and grass. Today, tree growth has replaced open space in most areas along the path.

In 1973, the D&R Canal was placed on the National Register of Historic Places and in 1974 the Delaware and Raritan State Park was created. Today as a park, the Delaware and Raritan Canal is a favored destination for walking, biking, boating, fishing and enjoying nature. For more information about the D&R Canal State Park, call (609) 924-5704 or go to the following website: www.dandrcanal.com.

**References:**
John Lenard chaired the meeting since Eckhard Kemmann, the president of the RWJMS Retired Faculty Association, was sightseeing in Barcelona, Spain.

1. Nominations and election of officers, committee members

The nominees selected by the Election and Membership Committee (David Riley, chair) were presented and additional nominations were made at the meeting. The results of the election are shown below:

**Election Results**

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
<td>Eckhard Kemmann</td>
</tr>
<tr>
<td>Vice-President</td>
<td>Michael Gochfeld</td>
</tr>
<tr>
<td>Secretary</td>
<td>John Lenard</td>
</tr>
<tr>
<td>Treasurer</td>
<td>Nancy Stevenson</td>
</tr>
</tbody>
</table>

Program Committee: Sandra Moss  
David Seiden  
Donald Wolff

Election and Membership Committee:  
Paul Manowitz

2. IRS Application

The RFA has been incorporated as “Robert Wood Johnson Retired Faculty Association, A New Jersey Nonprofit Corporation.” An application, which required a $400 application fee, has been submitted to the IRS for non-profit status for the RFA as a public charity.

3. RFA Directory

There was general agreement that a directory of RFA members, including addresses, phone numbers and email addresses, be sent to those who have paid their dues.

4. Medical History Society of New Jersey

The annual fall meeting of the Medical History Society of New Jersey will be held on Wednesday, October 12, 2011 at The Nassau Club of Princeton, 6 Mercer Street, Princeton, New Jersey.

5. Problems with Retiree’s Email

Some retirees noted that while their UMDNJ email addresses were reinstated after retirement, they lost their stored emails in the process.
The Retiree State Health Benefits Program mailed information last week to all retirees regarding new plan designs and changes to the prescription drug program. If you have not received this mailing please call Client Services at (609) 292-7524.

Current retirees who do not contribute toward their medical and prescription drug coverage will not be required to pay a percentage of the premium share.

Active employees who had 25 or more years of pensionable service credit as of the effective date of Chapter 78 (June 28, 2011) are grandfathered and governed by the terms applicable on the date they accrue 25 years of service credit.

Open Enrollment information for retirees may be found on the State Health Benefits Program Open Enrollment webpage: http://www.state.nj.us/treasury/pensions/open-2011.shtml

Active faculty members can visit the HR Benefits Services Office website for Open Enrollment information: http://www.umdnj.edu/hrweb/benefits/openenrollment.htm

- Ms. Diane Wieckowski -
Manager Benefits Operations
Newark Campus
NEWS FROM NEAR

The Governor’s UMDNJ Advisory Committee

The interim report of the UMDNJ Advisory Committee has recommended a merger of Robert Wood Johnson Medical School, the School of Public Health, and the Cancer Institute of New Jersey with Rutgers University at the New Brunswick-Piscataway campuses. For the full report, see the following website: http://dng.northjersey.com/media_server/tr/2011/09/20rutgers/report.pdf

Rutgers University has issued statements welcoming the merger. See http://news.rutgers.edu/medrel/news-releases/2011/09/rutgers-response-to-20110920

Kevin Barry, MD, president of the UMDNJ Board of Trustees, has issued a response favoring the maintenance of a unified UMDNJ, citing the Board’s fiduciary responsibility to support the integrity of the UMDNJ. See http://umdnj.edu/home2web/higheredu/higher-ed-spotlight/barry-oct-19.html.

In an article on October 13, 2011, the Star Ledger reported, “(Gov.) Christie agreed with the idea and said the merger (of Robert Wood Johnson Medical School, the School of Public Health and The Cancer Institute of New Jersey with Rutgers University) will help bring more research money to New Jersey. He said he will fast-track a reorganization order to start the merger process. However, the state Legislature can block the order.”

Proposed Dissolution of Two RWJMS Basic Science Departments

At the RWJMS Faculty Meeting on October 19, 2011, Terri Kinzy, PhD, interim senior associate dean of the UMDNJ-Graduate School of Biomedical Sciences at Robert Wood Johnson Medical School, presented a ballot proposal for the dissolution of two basic science departments, the Department of Biochemistry and the Department of Physiology and Biophysics. The faculty will be asked to vote electronically on the proposal. Nancy Walworth, PhD, president of the Faculty Council, discussed the proposal, which will reduce the number of basic science departments from five to three. If the proposal is approved by the UMDNJ Board of Trustees, she pointed out that this will require changes to the RWJMS bylaws. For example, the bylaws presently require that the Advisory Committee on Promotions and Tenure be composed of five faculty members from basic departments and five from clinical departments from the Piscataway/New Brunswick faculty. Since each member of the committee must be from different departments, a reduction of the basic science departments from five to three will require that the bylaws be amended. Following the faculty electronic vote on the proposed dissolution of the two departments, the dean and president may present the proposal to the Board of Trustees for its approval.
NEWS FROM AFAR

Norma Greenfield (formerly of the Department of Neuroscience and Cell Biology):
“Since retiring I have done a lot of long-postponed traveling. Last winter I visited friends in Arizona and Florida. In the spring I visited a colleague, who is now a professor at the Technische Universität München, and gave a talk to her group. After the visit I went on a long planned tour of Southern Italy, where I saw the 11th and 12th century Byzantine mosaics in Palermo. Seeing them was worth the whole cost of the trip. I am also taking much more advantage of living close to NYC and have made many visits to museums and am seeing a lot more plays than I did when I was working. While I am no longer doing any active research, I am keeping up with the tropomyosin field and went to the Biophysics meeting last February and plan to go to the one this year in San Diego. I also still assist a lot of people who email me questions about analyzing circular dichroism data. Recently, I started to play the guitar again, and if I keep up practicing for the next 20 years, maybe I will be as good as when I was 14 years old.”
Heikkila Tribute and Lecture

By Patricia K. Sonsalla, PhD, Professor of Neurology

This year marks the 20th year since the tragic deaths of Dr. Richard E. Heikkila and his wife Dawn. At this time, we pause and pay tribute to this astonishing researcher and his wife. A memorial tribute and lecture were held on October 3, 2011 at RWJMS.

I began the tribute by highlighting Dick’s outstanding career. I recalled my post-doctoral fellowship years under Dick’s mentorship, noting his contagious enthusiasm for research. Barry Hoffer, MD, Professor Emeritus at the NIH and currently the director for research in the Department of Neurosurgery at Case Western in Cleveland, reflected on the many conversations and meetings he had with Dick especially on NIH Study Sections. He especially commented on Dick’s quick intelligence, great insight and Dick’s uncanny ability to zero in on the best in grant applications. James P. O’Callaghan, PhD, from the Centers for Disease Control at Morgantown, West Virginia reflected on Dick’s openness and collegiality, recalling both the intensity of scientific meetings as well as the evenings of fun that followed. Herbert M. Geller, PhD from the Developmental Neurobiology Section at the National Heart Lung and Blood Institute, NIH, spoke of the many collaborations and interactions he had with Dick when Herb was on the faculty of RWJMS. Herb also emphasized Dick’s wonderful personal attributes and what a great person Dick was. Larry Manzino, BS, who was Dick’s right-hand researcher provided his insight into Dick’s character, especially as a believer in people’s abilities to succeed and as a mentor. Andrew Giovanni, PhD and senior scientist at Sanofi-Aventis, was Dick’s first graduate student and recalled the positive interactions, mentorship, friendship and support that Dick provided to him in those formative years.

We were honored to have as the Heikkila lecturer Michael J. Zigmond, PhD, professor of neurology, neurobiology, psychiatry, and behavioral and community health sciences and the scientific director for Center for Health Equity at the University of Pittsburgh School of Medicine. Dr. Zigmond began his lecture with a tribute to Dick, whom he met in the early 1970’s when Dick was working with Dr. Gerald Cohen at Columbia University on mechanisms underlying oxidative stress and damage to tissues. Because they had a common interest in catecholamines, Michael and Dick became good friends and colleagues over the years. Michael then launched into his lecture on “Life Style and Brain Health: Lessons From our Ancestors and From Models of Parkinson’s Disease.” He described how the human population has evolved from a life style of physical activity to one of a more sedentary life style bringing into focus the current problems faced with the sedentary life style. An important emphasis of his lecture was on life style changes, such as exercise and diet, both of which may be important for reducing neurodegeneration and the onset of Parkinson's disease.

We were immensely happy to see so many individuals who had associations with Dick, and who have since retired or moved on to positions outside of RWJMS. And we were also grateful to those who had come long distances to participate. Their presence made the event even more special. Also, it was wonderful to see so many newer faculty, staff and students present.

The day ended with a dinner at the Pad Thai Restaurant in Highland Park attended by sixteen individuals. It gave us all a great chance to catch up on the happenings in each others lives. Dick would have liked that.
Sumiko Inouye, PhD

Sumiko Inouye was born in Osaka, Japan on June 27, 1935; the first of five daughters to a small manufacturer of jewelry box hinges. Against her parents’ wishes, she chose to go to college and passed a highly competitive entrance examination for the Department of Engineering at Osaka University where she was the only female student admitted in 1954. Because of her interest in basic science, she later switched to the School of Science and studied organic chemistry. In her last year of undergraduate education for her graduation thesis, she worked in the laboratory of Professor Shiro Akabori, a pioneer of biochemistry in Japan. There she met classmate Masayori Inouye, whom she married in 1961. In 1968 they moved to Princeton, New Jersey and then on to Long Island, New York, where she worked as a research scientist at the State University of New York, Stony Brook.

In 1977, she published a seminal paper in collaboration with Dr. Keiichi Itakura at The City of Hope, California, marking her as the first scientist to use site-directed mutagenesis to create an amino acid substitution in a protein. In 1978 she began working with Dr. David Zusman at the University of California, Berkeley. There she initiated a research program using Myxococcus xanthus, a gram-negative bacterium, to study bacterial development at the molecular level. This was her passion for the last 30 years of her academic career. During this time she made multiple important discoveries and was a pillar of the myxobacterial community. She is responsible for discovering retro-elements known as msDNA which are used in the production of unusual DNA-RNA hybrids. She was also the first scientist to discover eukaryotic-like Ser/Thr protein kinases required for the life cycle and differentiation of M. xanthus. Many of her papers have been published in Cell Science and other most reputable journals. More recently, she had started active collaboration with Dr. Mike Travisano, associate professor at the University of Minnesota, investigating the evolution of development in M. xanthus. Sumiko was a superlative empirical scientist, both in the design and the execution of experiments. Her data were always impeccable and she took great pride in producing indisputably clean results. She was an excellent teacher, guiding many students and postdoctoral fellows in the laboratory.

Sumiko's passion for science was surpassed only by her love for her family. She was a devoted mother, grandmother, wife, daughter, sister, and aunt. She is survived by her four children: Akiko, Masatoshi, Masayuki, and Keiko, and seven grandchildren: Masatomi, Marika, Dante, Isabella, Giovanna, Riky, and Jun. She was fun-loving, generous, creative, and kind. Her hobbies were vast and varied, and included cooking, gardening, traveling (Galapagos, Machu Picchu, Australia, etc.) skiing, swimming and entertaining. Her zest for life was unparalleled, and the many lives she touched will always be graced by her memory.

Her lovely smile and laugh will be remembered by all of us. She will be missed by all.

by Masayori Inouye, Masatochi Inouye and Akiko Inouye-Travisano
Retired Faculty Association

The following members have paid their RWJMS RFA 2011 dues:

David Alcid    George Krauthamer
Gad Avigad     Lourdes Laraya-Cuasay
Gordon Benson  Paul Lehrer
Bruce and Mary Breckenridge  Michael Leibowitz
Barbara Brodsky  John Lenard
Charles and Margaret Brostrom  Harold Logan
Ned Browning     Gordon Macdonald
Wilfredo Causing  Paul Manowitz
Jay Chandler     Russell McIntyre
Norman Edelman   Virginia Mehlenbeck
David Egger      Sandra Moss
Eric Eikenberry  Robert Pinals
Stephen Felton   Irwin Pollack
Michael Gallo    David Seiden
Herb Geller      Bob Shelden
Joanne Medlinsky Gibson  Norman Sissman
Michael Gochfeld  Paul Smilow
George Hansen    Frank Snape
Richard Harvey   Thomas Stevens
Arthur Hess      Nancy Stevenson
Al Jekelis       Victor Stollar
Marsha Jessup    Mary Swigar
Avedis Khachadurian  Gisela Witz
Florence Kimball Nicholas Wright
Linda Kovach     Joseph Zawadsky
Retired Faculty Association

If you have not already done so, please send in your 2012 dues. Dues are collected for the calendar year. Please cut along the dotted line and return this portion with your payment.

RWJMS Retired Faculty Association 2012 Dues

Benefits of RFA Membership:

- Defining, advocating for and publicizing the benefits of retired faculty at RWJMS,
- Fostering ongoing engagement and participation of retired faculty in RWJMS activities,
- Promoting continuing interaction among retirees,
- Providing information and options for faculty considering retirement, and
- Interacting with other academic retired faculty associations (e.g., Rutgers Retired Faculty Association).

Please Print:

Name: __________________________________________

Address: __________________________________________

________________________________________

Phone: __________________________________________

E-mail address: __________________________________________

Please enclose a check in the amount of $15 made payable to “RWJMS Retired Faculty Association” and mail it to John Lenard, PhD, at the following address:

John Lenard, PhD
444 Harrison Ave.
Highland Park, NJ 08904

Thank you. November 2011

This newsletter was edited by Eckhard Kemmann, Michael Gochfeld, John Lenard, Nancy Stevenson, and Paul Manowitz.