



IEEE

MADISON SECTION NEWSLETTER

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APRIL 2008

The Challenge Of Walking After A Stroke

Date/Time: Thursday, April 17, 2008, 11:45 AM - 1:00 PM

Speaker: Kreg Gruben, Associate Professor, Departments of Kinesiology, Biomedical Engineering, and Mechanical Engineering, UW-Madison

Location: Rocky Rococo's Pizza, 7952 Tree Lane (Madison Beltline Hwy. at Mineral Pt. Rd.), 608.829.1444

Menu: Pizza buffet, salad and soft drinks (cost \$10.00, free for UW-Madison student members)

RSVP: by April 14th to Shazia Ahsan via e-mail (sahsan@ieee.org) or call 906.370.2958

Non-member guests are always welcome!

Coordination of leg muscles controls the ground reaction force that allows us to stand and walk. A stroke disrupts lower limb muscular control so that the ground reaction force is misdirected. That misdirection will rotate the body leading to a fall. Compensatory strategies may be adopted to preserve upright posture. We will discuss the implications of this coordination deficit for post-stroke rehabilitation.

Kreg Gruben is an Associate Professor in the Departments of Kinesiology, Biomedical Engineering and Mechanical Engineering at the University of Wisconsin - Madison. He served as a post-doctoral fellow at the IBM T.J. Watson Research Center in NY and at Johns Hopkins University in Baltimore, Maryland prior to joining the faculty at UW-Madison in 1994. Kreg holds a PhD in Biomedical Engineering from Johns Hopkins University and a BS in Agricultural Engineering from the University of Illinois at Urbana-Champaign.



Renewable Energy – Connecting Wind Farms to the Grid

Presented by the IEEE Milwaukee/N.E Wisconsin/Madison Power Engineering Society

Cosponsored by the IEEE Industry Applications, Industrial Electronics, Magnetics, and GOLD Chapters

Date/Time: Thursday, April 17, 2008, 7:00 PM

Speaker: John Diaz de Leon II, Consulting Engineer Transmission Planning, AMSC Power Systems, AMSC (American Superconductor), an energy technologies company

Location: University of Wisconsin Milwaukee – EMS-E190, 3200 N. Cramer St., Milwaukee, WI

Menu: Pizza and soda will be provided by the IEEE

RSVP: to ptindall@ieee.org via email or call 262.506.6919

Non-member guests are always welcome!

Mr. Diaz de Leon II will discuss the issues involved in connecting wind farms to the transmission grid including:

- Wind Farm interconnection Issues to consider
- Interconnection standards, particularly in the areas of reactive power capability and HVRT/LVRT– what is being applied worldwide
- How are these interconnection standards being met
- Sizing reactive compensation systems for wind farms
- Other issues to consider such as harmonics, shunt reactive compensation sizing, etc.

John A. Diaz de Leon II, PE joined American Superconductor in 1999 after working for Alliant Energy/Wisconsin Power and Light Co. for 20 Years. He earned his Electrical Engineering degree from the University of Wisconsin. His current position at AMSC is Consulting Transmission and Distribution Planning Engineer. He performs planning studies to analyze transmission and distribution systems for voltage, capacity, stability, transfer capability, harmonic, and power quality problems. He also conducts studies to analyze wind farm interconnection requirements that include LVRT and HVRT capabilities, harmonic and power quality problems, voltage regulation, and power factor control.





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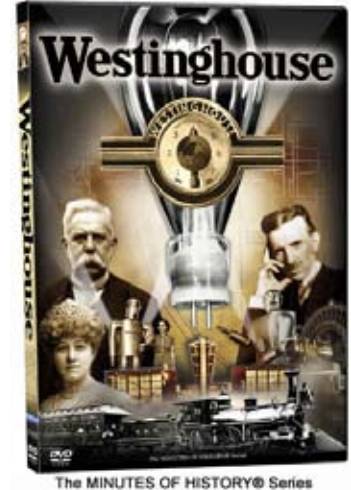
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Inecom Entertainment Sets Street Date Of April 8, 2008 For Westinghouse

Pittsburgh, PA - Inecom Entertainment Company announced today that its new film, Westinghouse, will be available in stores nationwide on Tuesday, April 8, 2008. Preorders for the film are already being taken through Internet retailers such as Amazon.com. Visit <http://www.westinghousefilm.com/> for a sneak preview of the film.



Westinghouse is a feature-length documentary about the life and times of George Westinghouse, his companies, legacy, personality and achievements. George Westinghouse is considered America's greatest industrialist and the only man who would go up against Thomas Edison, and win.

His victory over Edison during the Battle of the Currents set the stage for the entire future of electric power and the Westinghouse air brake is considered one of the most important inventions in history. Automobile shock absorbers, railroad signaling and the modern day weekend all owe their existence to the man who Andrew Carnegie called "A genius who can't be downed."

His spirit lived on for decades when his former companies created the golden age of American-made appliances, machines and technologies. Westinghouse Electric dominated the 1939 World's Fair with Elektro, the talking robot, and the Battle of the Centuries dishwashing contest. The "You can be SURE... if it's Westinghouse" slogan was used in ads that featured Ronald Reagan promoting home appliances.

Westinghouse may be most famous for the massive companies that he created, but the man called "Uncle George" was a reserved, creative giant who went out of his way to treat his workforce with dignity and respect. He was an honest millionaire in the days of robber barons, an optimist in the days of skeptics and a generous CEO from whom today's executives can learn.

Westinghouse was filmed in cooperation with the George Westinghouse Museum and features rare and never before seen footage, industrial films and photos previously buried deep within the Westinghouse archives. Filmed in High Definition, the film includes an interview with George Westinghouse Museum Executive Director, Edward J. Reis.

Director Mark Bussler's credits include EXPO - Magic of the White City narrated by Gene Wilder, World War 1 - American Legacy narrated by David Carradine, Horses of Gettysburg narrated by Ronald F. Maxwell, Gettysburg and Stories of Valor narrated by Keith Carradine and Johnstown Flood narrated by Richard Dreyfuss.

Submitted by Jeremiah Huth

Inecom Entertainment Company

1.888.258.5164, jhuth@inecom.com, www.Inecom.com

New IEEE Madison Section Senior Members

Congratulations to the following IEEE Madison Section members who recently became Senior Members of the IEEE:

- John Diaz-De-Leon
- Les Schroeder

Passion And Enthusiasm In The Job Interview

By Terrance Malkinson

Employers are looking for indicators of passion and enthusiasm in potential employees. If you can demonstrate these qualities, you will achieve an advantage over other candidates who are simply interested in a "job." How do you demonstrate these qualities to a recruiter?

- Participate in the industry – Most industries have formal associations who gather regularly to share information. Become a member; in most cases, student rates are inexpensive and an excellent investment in your future success. Most have conferences and other gatherings that will provide you with the opportunity to meet like-minded people. You will learn the latest practices. These events will also give you the opportunity to network and inquire where the high-growth areas are and where there is a need. You can find out about these events through industry associations, Web sites and periodicals.
- Become informed – Be a regular reader of industry magazines, periodicals and Web sites. This will keep you up-to-date on the latest trends. The more inside information that you have about a profession, the better prepared you will be for your interview. You will be able to impress a potential employer if you can talk well about industry trends or articles. Many of these publications also have advertisements for companies who are seeing employees.
- Develop your soft skills – In today's world, it's not enough to simply be knowledgeable about your area. Today most employees work in teams where effective social skills and teamwork are essential qualities. Those who are not successful in interpersonal interactions will not achieve career success.
- Ask for the job – Make it very clear that you want to work for your preferred organization. Take the time to research the organization so that you will be able to demonstrate your knowledge of the company's history, products, clients and successes. Find out about the company's values so that you can highlight how your values coincide. Identify the skills that will make you a good match for the company.



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World Bytes

By Terrance Malkinson

- Many organizations are obsessively preoccupied with efficiency. In "No Innovation for You!" [CIO, 21(4), pp. 50-54, 15 November 2007, www.cio.com], Elana Varon interviews Gary Hamel, who blames obsolete management practices that focus on efficiency for failure to establish a culture of innovation. The interview provides interesting new insights on innovation that highlights the fringes of the Web, listening to the millennial generation, challenging dogma, understanding the early signs of shifts in technology, regulation and an understanding of the hidden or unarticulated needs of customers.
- "The Race is Not Always to the Richest" [The Economist, #8558, pp. 69-70, 8 December 2007, www.economist.com] provides an interesting perspective on the practice of wealthy countries investing money and political energy into education in an effort to impart the skills and knowledge needed in today's globalized and competitive workplace. The article, based on studies by the Organization for Economic Cooperation and Development [www.oecdwash.org], explores the notion that "money and effort aren't enough to impart the skills and knowledge needed in a cut-throat world."

Terrance Malkinson is a communications specialist, business analyst and futurist. Currently retired, previously he was an accomplished technical supervisor and medical researcher at the University of Calgary and a business proposal manager for the General Electric Company. He can be reached at todaysengineer@ieee.org.



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