



# Just In Times



Institute Of Industrial Engineers  
South Jersey Delaware Valley Professional Chapter No. 132

<http://iienet2.org/Chapter/chap132/>

VOLUME 49 Summer 2011 NUMBER 10

Theme: Summer  
Date(s): Memorial Day to Labor Day  
Time: Select your own  
Requisite: None

Pick up a good book, organize for a project that you always want to do. Travel to distant places. Go visit a friend. Take some downtime on the beach, or up in the mountain.

Refresh and renew yourself. Join a health club, lower your blood pressure.

Start a vegetable garden.

Make time to call your Mom and Dad, or your children . . .

Get plenty of sleep, life's best medicine . . .

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## Program Planning

### ***Focus on Building one of the Best Technical Dinner Programs in the Delaware Valley South Jersey Region***

Over this summer, we will be fine-tuning a list of best programs . . . to enhance your professional development, expand your network opportunities, and sharing ideas to build a better community . . .

- Strategic Alliances
  - ASQ
  - APICS
  - Other
- Use of Technology
  - Lunch Webinar
  - Social Media for recruiting
  - Other
- Colleges & Universities
  - Philadelphia University
  - Local Community Colleges
  - Job Fair
  - Summer Programs
  - Key months: Oct, Nov, Feb, Apr
- Social Networking
  - Happy Hour with door prizes
  - AAA Baseball
  - Student Night
- Professional Job Fair
  - Training
  - IIE (6 Sigma, Lean, other)
  - Plant Tours (6 Flags, UPS, TastyCake)
  - Other
- Volunteerism/Community Services
  - MathCounts
  - Future City
  - Volunteer events

***We will not have any Technical Dinner Meeting this summer, starting in June, but will resume in September. Over the summer, we will be conducting our strategic planning for next year.***

***Please contact one of our Board Directors to make suggestions for future activities and programs.***

## PRESIDENT'S MESSAGE

Shakespeare once wrote 'to be, or not to be. . ' To graduate, is to endure . . This summer we see another college commencement season . . and we are beginning to see rosier job outlook for college graduates . . .

Hiring projections improve for 2010, but the job market remains treacherous for college grads. Things are not that bright, so we don't need to put our sunglasses on yet . . For the first time in nearly two years, the hiring climate looks friendly - if only slightly so—to new graduates, according to a report on the 2010 job outlook from the National Association of Colleges and Employers (NACE)

The report, based on a survey of 177 employers of various sizes nationwide, projects that 5.3 percent more new graduates will be hired this year than were last year, according to David Leibig, associate director of career services at Villanova University. "There's the cautious optimism that things are slowly—and I think slowly is the key word there—getting better."

Experts say the employers' limited reach means that students need to be more active in their job-search process and better prepared during the limited times when companies do make an appearance on campus. "If the students aren't able to take advantage of the opportunity—a career fair or symposium—they aren't going to be considered a serious candidate," - James Tarbox, San Diego State University's director of career services.



A recent survey on the Ten Best Job Prospects for 2011 from the *New York Times* . . .

### 1. BIOMEDICAL ENGINEER

Job Growth: 72 %, or 12,000 new jobs by 2018

Salary: \$82,550 mean; \$103,000 for scientific and technical consultants

The Field: This relatively new specialty bridges the medical and engineering disciplines, with emphasis on engineering. Biomedical engineers design and build innovative devices (artificial limbs and organs, new-generation imaging machines) and improve processes (for genomic testing, or making and administering drugs).

### 2. NETWORK SYSTEMS AND DATA COMMUNICATIONS ANALYST

Job Growth: 53 %, or 156,000 new jobs by 2018

Salary: \$76,560 mean; \$99,000 in top industries (rail transportation, natural gas); \$105,000 in tech corridors like San Jose and Santa Clara, Calif.  
The Field: Analysts handle the virtual nuts and bolts of an I.T. department — designing, building, testing and maintaining information systems, internal or Internet-wide. They also know network and data communications hardware and software.

### 3. HOME HEALTH AIDE

Job Growth: 50 %, or 461,000 new jobs by 2018

Salary: \$21,620 mean; up to \$40,000 in affluent metropolitan areas

The Field: Home health aides assist the infirm in their homes or at an assisted-living or nursing home facility, preparing meals, doing light housekeeping and bathing patients. These licensed workers also take vital signs, administer drugs and operate medical equipment.

### 4. PERSONAL AND HOME CARE AIDE

Job Growth: 46 %, or 376,000 new jobs by 2018

Salary: \$20,280 mean; psychiatric sector and government agencies pay the most.

The Field: Same duties as home health aides, minus the medically oriented tasks. No license required.

### 5. FINANCIAL EXAMINER

Job Growth: 41 %, or 11,000 new jobs by 2018

Salary: \$71,000 mean; the federal executive branch pays the most.

The Field: Call it "C.S.I.: Accounting." Examiners, aka internal auditors or compliance officials, dig into an organization's books, investigating transactions and minute detail to ensure compliance with the law. Accounting, finance or business backgrounds a must.

### 6. MEDICAL SCIENTIST

Job Growth: 40 %, or 44,000 new jobs by 2018

Salary: \$84,760 mean; most jobs are in Massachusetts, California and Pennsylvania, which have supportive academic and research institutions.

The Field: Medical scientists study human disease and conditions, working in biotechnology and pharmaceutical companies, hospitals, university research centers or for the federal government.

### 7. PHYSICIAN ASSISTANT

Job Growth: 39 %, or 29,000 new jobs by 2018

Salary: \$85,000 mean; Connecticut, Nevada and Washington are top-paying states at \$96,000-plus.

The Field: Not quite a doctor, but not a nurse, P.A.'s are critical members of medical teams who diagnose conditions, and examine and treat patients with routine problems. Many choose the profession for lifestyle reasons: they want the medical and patient connection without the years of school and grueling demands placed on physicians.

### 8. SKIN CARE SPECIALIST

Job Growth: 38 %, or 15,000 new jobs by 2018

Salary: \$13 median hourly wage; \$60,000 or more in affluent areas, especially selling products

The Field: Skin care specialists treat the face and body, but mainly the face, and mainly the faces of women. Ninety-eight percent of practitioners are women (average age: 41), administering chemicals, [Botox](#), lasers, microderm abrasion and skin peels in day spas and doctor's offices.

### 9. BIOCHEMIST AND BIOPHYSICIST

Job Growth: 37 %, or 9,000 new jobs by 2018  
Salary: \$88,550 mean; New Jersey, Pennsylvania and Washington, D.C., pay the best.

The Field: Closely related to medical scientists, biochemists and biophysicists study living organisms at the molecular level — one focusing on their chemical composition, especially DNA and how it can be manipulated to treat disease and genetic disorders; the other using math and physics to understand how mechanical and electrical energy affect an organism. The three fields are so interrelated that labels are becoming artificial, says Beverly Wendland, chairwoman of the biology department at Johns Hopkins. At Hopkins, a cooperative graduate program — Cell, Molecular and Developmental Biology and Biophysics — is typical of the wave of interdisciplinary study in the field.

### 10. ATHLETIC TRAINER

Job Growth: 37 %, or 6,000 new jobs by 2018  
Salary: \$41,340 mean

The Field: Not to be confused with personal trainers, athletic trainers work under a doctor's supervision and are schooled in sports medicine to prevent and treat muscular/skeletal injuries. These are the folks on the sidelines treating injured athletes. But they also work behind the scenes, designing training and strengthening exercises that prevent injury. "We look at movement patterns or activities that create overuse or injury in many professions, and get workers back to their jobs quickly and safely," says Marjorie J. Albohm, president of the National Athletic Trainers' Association.



Congratulations and best of luck to our New Grads . . .

Tom

## TREASURER'S REPORT

Mr. Richard T. Huysie reports a Treasury Balance of \$5,445.77 as of May 31, 2011 for the IIE South Jersey Delaware Valley Professional Chapter No. 132.

## MEMBERSHIP REPORT

The South Jersey Delaware Valley Professional Chapter No. 132 has 167 Members as of June 2, 2011. Don't forget to renew your membership. . . .

## Officers & Directors 2011 IIE South Jersey Delaware Valley Professional Chapter No. 132

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## Career Development

### *WHERE DO WE GO FROM HERE – IT'S UP TO YOU!*

The leaders of your Chapter are faced with their greatest challenge. The past is our history, witnessed by change that no longer defines us as a group. ***While our membership numbers are still high, our active participation has never been worse.*** Our leaders are still true to our vision and committed to our society. ***Yet most of our members are proving that whatever we are doing, it doesn't work for them.*** We know that something is wrong and with all our energy and resolve, want to fix it. Our June 2011 Chapter Board Meeting witnessed eight of our Chapter Directors departing from the past that has gotten us to the present. No longer are we looking at just planning technical dinner meetings and plant tours to inform and educate our members for programs. All of us realize that if we do not get to the root of our members lack of participation, we will have failed. ***With failure, there will be no future!***

The majority of our members will hopefully take this opportunity to reach out to us after reading this column. Your leaders have always attempted to reach out to you, but for various reasons, have not been successful. **We cannot have a future without you.** You have joined our society to accomplish some objective, which is most likely to support your career. More than 90 percent of our membership do not avail themselves to our programs. ***We do not have to use Pareto Analysis to determine we should be doing better.*** Something has to change and you need to help us with those changes. Why? Because we have been doing it alone and it has not worked.

Our ***Chapter's Vision*** has always been to demonstrate, educate, and inform our members and general public of the best practices of industrial engineering, management and technology. While it appears our programming has been on target since 1963, we have been losing audience to a point that we now realize we are not accomplishing our ***Chapter's Mission***. This is a defining moment in our Chapter's history. ***We must address our failure to engage our members!*** You, as a member are not off the hook! You and/or your company have invested in you. Each of us is responsible for our own careers and its support. Our mission is to demonstrate, inform and educate.

So, the past is gone and the present is not acceptable. What are we, collectively, going to do about it. Change! But, how are we to change and in what areas and directions? **First**, we must accept who we are and all the differences that presently separate us. Only, until we recognize what areas and interests that we have in common, can we begin to build a platform to actively share. Our Chapter is comprised of multiple generations . . . **Seniors**, like Rick Huysie, Franz

Schneider and I, **Boomers** like Tom Fung, John McGowan and Fred Rexon, **Gen-Xers** like Kevin Drevik, Mike Reyman and Paul Siebeneicher, III, **Gen-Yers** like Jackie Martin, Hardik Shah and Kevin Wiker, **Gen Interneters**, and **Gen New Silenters**. ***How in the world do you get all these generations interested in the same activity or program at the same time?*** For starters, we need to determine what each of our many generations need and want, not what we think they need or want.

**Second**, we are to be true to our mission. *“Adult learning methodologies today focuses on learner-centered instruction versus the traditional instructor-centered style of the past.”* Roy Saunderson, in ***May 2011 Training Magazine*** says, *“Over time, learning has become much more active, participative, and a shared experience.”* Saunderson points out that there are distinct differences in work habits, expectations, and motivation across the four generations in the workplace. I believe that recognizing and understanding these differences will begin to provide the basis for addressing our failure to get members to engage.

**Third**, as we explore and pioneer program changes, we must not let our own generation biases derail our mission. ***To this end, our learning program platform must be inclusive and respectful of each generation while having all generations sharing in the common learning objectives targeted.*** The generational learning differences are distinct for each individual. While each of us is different from everyone else, the group we grew up with shared generic experiences. We should not classify members (learners) by their generation. Still, Seniors prefer traditional lecture while Gen Xers prefer individual to group learning. Boomers and Gen Yers prefer collaborative team exercises, having grown up with interactive educational television and video games. Seniors and Gen Yers love to read. Gen Interneters and Gen New Silenters prefer the Internet to social outlets. President Tom Fung and I believe that we need to continue our support of the IIE University Members, but need to shift the majority of our activities and programs to the community colleges in our ***IIE South Jersey Delaware Valley Professional Chapter's*** region. Our Mock Interview Sessions in our ***Career Quest® Workshops*** has provided us with the opportunity to observe teaching through participative teaching. Planning participative programs with the community colleges is just one program idea we will plan. What are your thoughts on program changes? What are your needs presently? What do you not like about past Chapter programs? ***Our future is in your hands.***

***The IE is the “Change Agent” of the future! Make Your Career Happen! Educate, Proliferate . . . or Vanish! ©***

***Paul Robert Siebeneicher, II, CMfrE, CSI, CFOM, F.IIE***

**Director of Career Development – IIESJDVPC**

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## Director Center of Excellence

Location: Rockford, IL  
Min Salary: \$115,000.00  
Max Salary: \$135,000.00  
Position Id: 6073

Reporting to the Group Director for a world leader that integrates leading-edge technologies into fuel, combustion, fluid, actuation, and electronic control systems for the aerospace and energy markets. The Director of COE is responsible for multi-product family scope with high business complexity as defined by multiple products, customers and broad product mix. This position accomplishes objectives through leading a multi-disciplined team to achieve operational excellence in support of company visions, including On-time Delivery, Delivered Quality, productivity improvement/cost reductions, purchased goods quality and delivery and OEM and aftermarket lead-time requirements. Will oversee the order fulfillment process through a group of leaders in a product family structure, which may include any of all of the following functions: assembly, test, planning, product support, tactical purchasing (supplier management, supplier quality) product quality assurance, lean manufacturing and stock room.

### Background Required:

- General management including: operations (assembly and test), engineering, sales, customer support, team building and staffing requirements (7 years)
- Financial accountability: budgeting, balance sheet, forecasting, margins, operating earnings, capital planning and inventory
- Design and implement operational strategy
- Product life cycle management (development, systems, supply chain, manufacturing, test, quality, delivery, support, improvement)
- Quality Systems: ISO 9001-2000, AS 9100, QS9000
- Continuous improvement mindset: Six Sigma Methodology and Lean Manufacturing
- Education: Bachelor's Degree- BS / BA

### Background Preferred (but not required):

- Multi-site management, global experience
- Advanced Degree: MBA or similar

If you are interested in this opportunity but you're not ready to apply, please email the Practice Leader provided below with your questions. Contact:  
Practice Leader: Frank Whitaker  
Aerospace & Defense  
[fwhitaker@GlobalESG.com](mailto:fwhitaker@GlobalESG.com)  
330.666.3354, ext.133

## Industrial Engineer - Distribution and Warehouse - Cherry Hill, NJ

NFI <http://www.nfiindustries.com/>

This position will be responsible for designing warehouse solutions for RFIs, RFQs and RFPs from existing or potential customers, modeling those solutions for operational needs and financial costs, and creating facility designs to support those solutions. This position will also be responsible for storage system design and installation, new equipment purchase, and other start up-related activities for new facility openings.

### Essential Duties & Responsibilities

- Analyze initial sales information to determine data needs for cost modeling. Create a proposed operations solution, and subsequent modeling of the proposed solution for costing. Determine rates for storage, handling, and special activities including facility costs, equipment requirements and staffing needs.
- Create AutoCAD facility designs, project Gantt charts, project calendars, process flow charts and preparation of the resulting data for use in sales packages or presentations in response to the RFI/RFQ/RFP.
- Ability to travel at least 75%
- Experience with Gantt charts and Project Plan Management/Development
- Refrigeration or frozen food pricing a plus
- Degree in Industrial Engineering, Logistics or Supply Chain , 2-5 years experience
- Six Sigma/5S a plus

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## CAR Article – May 2011 Technical Dinner Meeting

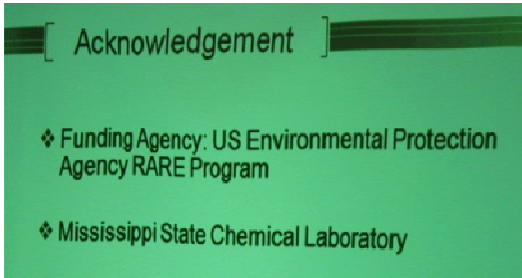
### *Biodiesel Production from Sewage Sludge*

Dr. David Kargbo was our May Speaker. Dr. Kargbo is a Senior Soil Scientist with the USEPA in Philadelphia and an Adjunct Professor at Temple University's Department of Civil and Environmental Engineering



Biodiesel is a fuel comprised of monoalkyl esters traditionally derived from vegetable oils or animal fats. There is currently an unprecedented increase in interest and demand for biodiesel and other fuels derived from renewable biomass.

However, pure vegetable or seed oils are expensive and constitute between 70% and 85% of the overall biodiesel production cost.

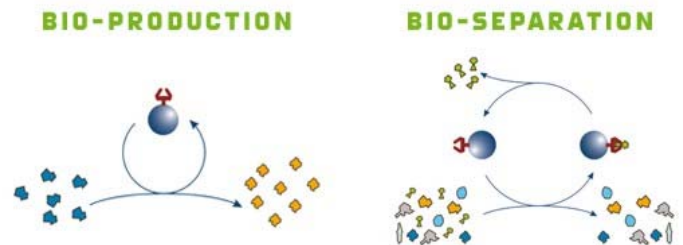


Municipal sewage sludge is gaining traction in the U.S. and around the world as a lipid feedstock for biodiesel production. It is plentiful and consists of significant concentrations of lipids that can make production of biodiesel from sludge profitable. However, there are challenges to be faced by biodiesel production from waste sludge.

Dr. Kargbo's work was supported by the US EPA RARE Program, as well as Mississippi State Chemical Laboratory.



The scientific data shared by Dr. Kargbo was fascinating. Our IIE South Jersey Delaware Valley Professional Chapter greatly appreciated Dr. Kargbo's sharing his insights into solving the current energy crisis that we are facing.

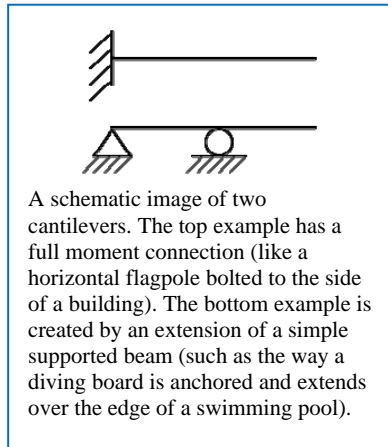




## Travel Journal from the Newsletter Editor

A cantilever is a beam supported on only one end. The beam carries the load to the support

where it is resisted by moment and shear stress. Cantilever construction allows for overhanging structures without external bracing. Cantilevers can also be constructed with trusses or slabs. See sketches at right.



I had a chance to finally visit Fallingwater, at Mill Run, PA in the spring. Fallingwater is a masterpiece commissioned by the Kaufmann family of Pittsburgh in 1936, designed by the American architect, Frank Lloyd Wright. He appeared on the cover of Time Magazine in 1937; and this year of 2011 marks the 75<sup>th</sup> anniversary of this remarkable building.

Edgar J. Kaufmann (1885 - 1955) was a prominent businessman that owned the Kaufmann's Department Stores (now part of Macy) in western Pennsylvania. The family purchased 1,500 acres in the Laurel Highlands area, about 120 miles east of Pittsburgh, intended for a summer vacation location for his employees. During the early 1930's, he

and his only son, Edgar, Jr. was studying architecture under Wright. Wright said something like this to the Kaufmanns, 'why look at the water, when you can live over the waterfall', hence the cantilever design came into place, shown by illustrations on the left and bottom..



The front of the house was cantilevered over the waterfall, and anchored by boulders of the side of the hill. Wright called it 'organic architecture', as his design blends in nature and the surrounding that allows humans to experience that openness. Architecture is fundamentally the design and utilization of space, and how humans interact with it, in it, and through it.

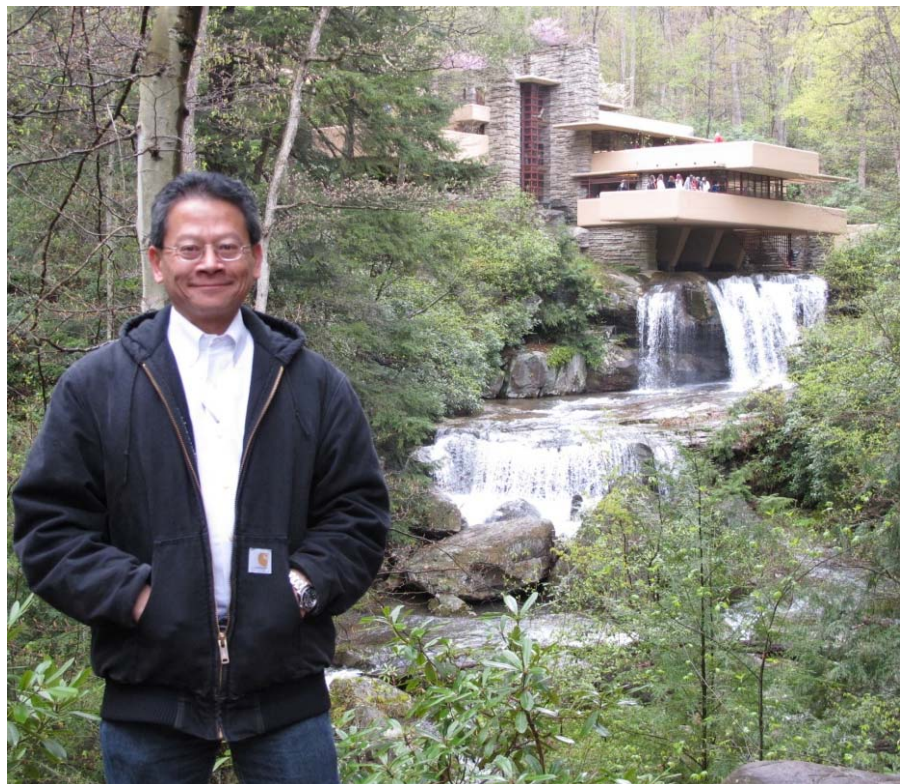


The house has a certain minimalist feel to it . . . open space, subtle geometric lines. Narrow entryway leading to expansive view .. always leading one to see the outside of the house.

In 1963, Edgar Jr. entrusted this iconic modernist house to the Western Pennsylvania Conservancy. Pennsylvania Governor William Scranton and 400 civic leaders attended the dedication. President John Kennedy sent a telegram that read: *The vigor of Wright's architecture and the richness of Fallingwater's spectacular natural setting combine to form a distinctive public legacy. Then nation and especially the people of the Commonwealth of Pennsylvania owe the Kaufmanns a debt of deep gratitude.*

Fallingwater will entertain you - with all its organic beauty and natural openness . . .

Bon voyage, my friends . . . Tom Fung



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