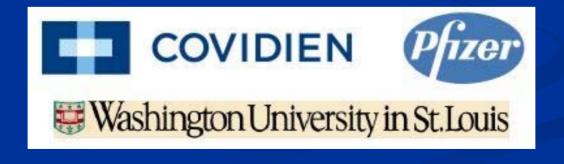


Younger Chemists Committee of St. Louis ACS

Chemistry Career Night







Dr. Keith Stine

Chairman - ACS St. Louis



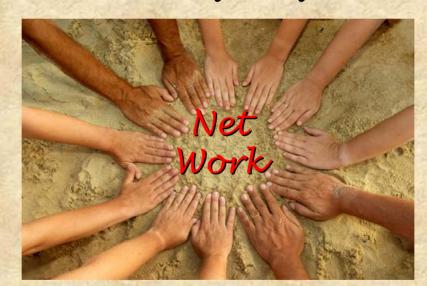


St Louis Local Section YCC



YCC: Membership and Mission

- 35 Years and Younger
- Address any issues faced by early career chemists!



- Happy hour
- We plan to do a seminar given by a chemist on a scientific topic
- We meet once a month

Younger Chemists Committee

• www.acs.org/ycc

Local Section under the new website:
 www.stlacs.org





Just A Thought

• Think about one issue

• Send me an E-Mail: royarind@yahoo.com

- Do come to our meetings
 (Wash U or Covidien)
- Be a part of the TEAM YCC





Acknowledgement

- Dr. Keith Stine: Chair, St Louis ACS
- Officers of YCC and Ms. Dayna Turner
- Volunteers: Dr. Eric Burton, Dr. Archana Parameswar
- Our Speakers:

Dr. Lucinda Buhse

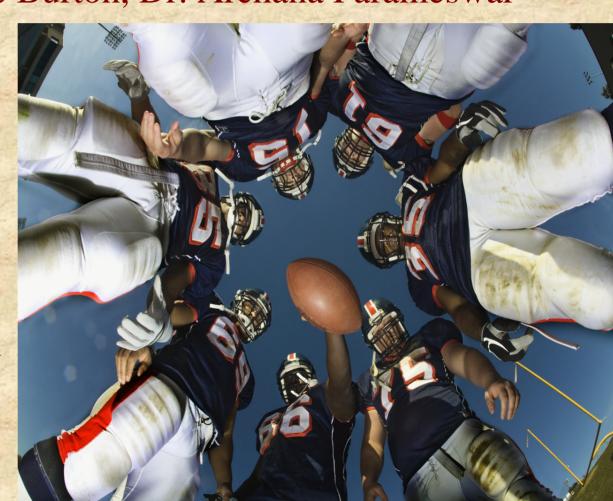
Dr. Lloyd Hill

Mr. Keith Hampton

Dr. Rajesh Devraj

Dr. Ryan McCulla

- Dr. Ed Hiss/WashU
- Sponsors





Thank You





Dr. Lucinda Buhse

Director, FDA – St.Louis





Lucinda (Cindy) Buhse, Ph.D.

Director, Division of Pharmaceutical Analysis Center for Drug Evaluation and Research (CDER) Food and Drug Administration (FDA)

> Chemistry Career Night Washington University September 17, 2008

Education







Undergraduate Research under Professor Luther E. Erickson

Research Title: "Kinetics and Mechanisms of Isomerization of Amino Acid-DMSO Chloride Complexes of Platinum (II)."

- Ph.D. Physical Chemistry, University of California, Berkeley
 - Graduate Research under Professors John H. Clark and George C.
 Pimentel.
 - Thesis Title: "Picosecond Dynamics of Solvation: Time-Resolved Fluorescence of 4-Aminophthalimide in Solution."

Industrial Career



ROHM HAAS 🔼

(7 years)

- Senior Scientist for Plastics Research
 - Developed new Plexiglas formulations
 - Ran quality control for a high temperature plastic pilot plant
- Process Chemist for Multi business Manufacturing Facility
 - Improved processes for several products
- Process Chemist for Agricultural Business
 - Developed conditions for scale up of pesticide
- ** Management experience with technicians, chemists and engineers**



Industrial Career (cont.)



(7 years)

- Validation Engineer for Diagnostics Division
 - Introduction to FDA, cGMPs
- Batch Chemist Supervisor for Diagnostics Division
- Production Manager for Diagnostics Division
- Validation Manager in Engineering Department
- Analytical Services Manager in Fine Chemicals Division

A

Government Career 7 years with FDA







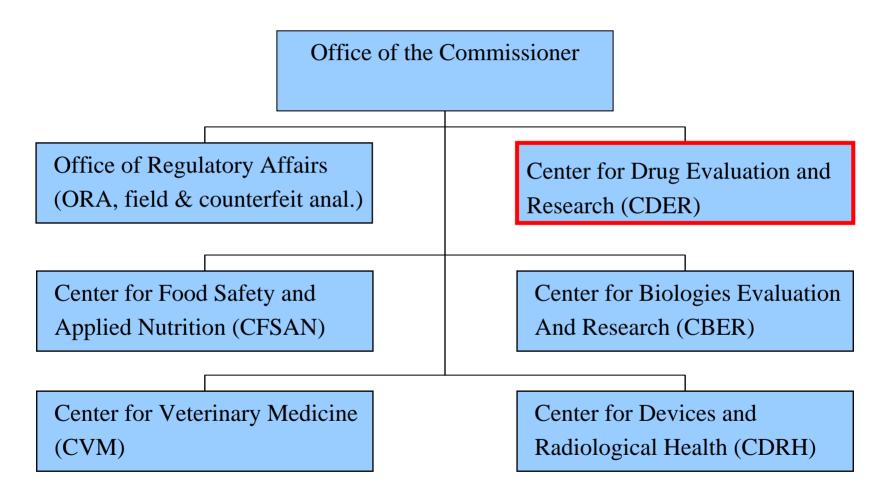


- Deputy Director, Division of Pharmaceutical Analysis
- Director, Division of Pharmaceutical Analysis
- Acting Director, Office of Testing and Research

FDA



(under Department of Health and Human Services)



Mission of Division of Pharmaceutical Analysis



- Ensure, through biological, chemical, and/or physical assessments, the safety and efficacy of human drugs used in the United States;
- Provide a strong scientific and analytical base to support complex FDA investigations and enforcement actions concerning the quality and authenticity of human drugs;
- Provide leadership to advance and disseminate the application of new technologies and methods, in order to assess the quality and authenticity of human drugs.







Thank You



FDA.gov USAJOBS.gov



Dr. Lloyd Hill

Director, Covidien Mallinckrodt Pharmaceuticals



YCC

Thanks for the invitation from Dr. Arindam Roy

BIO

- **→ UMSL A.B.**
 - -great mentoring from faculty
- *ISU Ph.D.
 - Outstanding learning / growth
 - "A Place to Grow"
- Career Stops
 - -STL Police Department Lab
 - ◆CSI -- not for me
 - Roche Carolina
 - Great facility bad cultural fit

BIO

- → MALLINCKRODT / COVIDIEN
 - Left in 1997; returned in 2000 to present
 - Developed expertise in opium alkaloids, isolation, purification, synthetic conversions to other drug substances and their end use
 - Experience in lab, management, plant operations and quality control

SUCCESS DRIVERS

- * Resume vs. Behaviors
 - Resume
 - Education
 - Publications
 - Experience
 - Projects
 - Behaviors
 - Hiring / Promotions
 - "The Selection Solution"



SUCCESS DRIVERS

- Career Path Selection Scientist vs.Other
 - Block outside influence
 - Self Discovery
 - **The Lemming Conspiracy"

SUCCESS DRIVERS

Fourth Grade Teacher vs. Real World

– Copy from your neighbor?

Never - Ever Stop Learning

- Technical and non-technical

CONTACT INFORMATION

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Lloyd.hill@covidien.com

314-654-1375



Dr. Rajesh Devraj

Sr. Director, Pfizer Global R&D

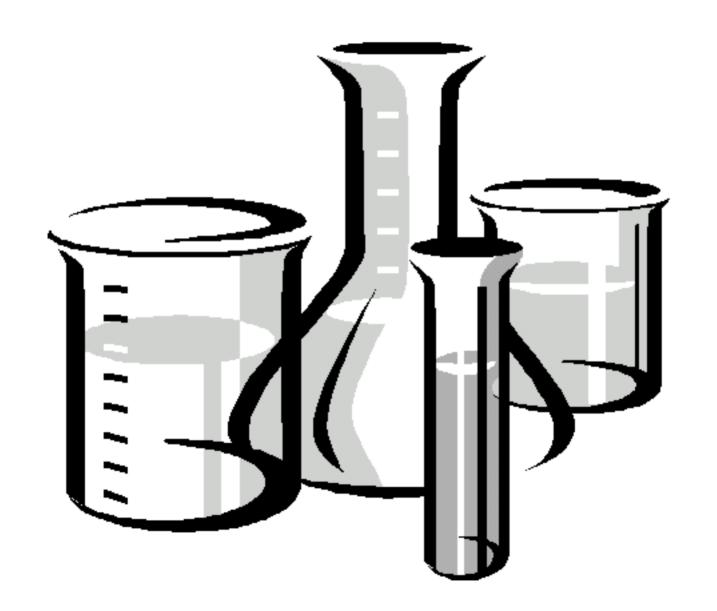




Dr. Ryan McCulla

Assistant Professor, Saint Louis University



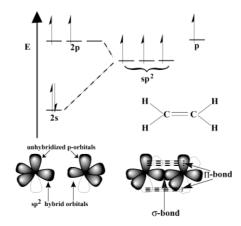


Career Path

Job Shadow - Industrial Paper Chemist



- College (Biology)
 - General Chemistry (BA Biology & Chemistry)
 - Organic Chemistry (BS Chemistry)

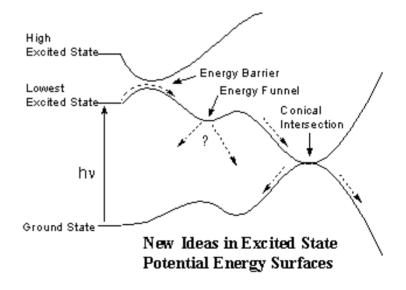


Career Path

Undergraduate Research



Graduate School



Preparing Future Faculty

Career Path

- Postdoctoral Research
 - Develop skills
 - Improve CV



- Saint Louis University
 - Applied to ~70 Positions.



Pros to this path

- Graduate School = Fun
 - If you like the work.

- Faculty Position
 - Independence
 - Working with Students
 - Flexibility (sort of)

Cons to this path

- Graduate School
 - Time

- Faculty Position
 - Reliance on Government.
 - Salary (sort of)

Insights

Competitive Positions - Start Early

- When to get out
 - Early College
 - Graduation
 - 1st semester graduate school
 - M.S.
 - Ph.D. become a lawyer.



Keith Hampton

Sr. Recruiter, Lab Support



People First.





CAREER MANAGEMENT STRATEGIES

PLANNING FOR SUCCESS

On Assignment Lab Support

Scientific Recruitment

- Parent Company On Assignment Inc.
- Branches throughout Northern America, UK & Belgium and The Netherlands

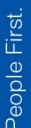




The role of a Recruiter

- To Advise Technical Managers & Personnel
- To recruit & interview prospective candidates
- To offer career management/outplacement advice
- To get skilled scientists a job!





Elements of Career Management

- Personal Evaluation
- Your Interests and Experiences
- Resume Writing Skills
- Interview Technique
- Creative Job Hunting



Personal Evaluation

- Are you a patient / impatient person?
- Are you an easy or difficult person to work with?
- Communication skills
 - Do you jump in before you have heard everything?
 - Do you ask for clarification?
 - Do others understand your ideas / instructions?
- How do you manage any differences in opinion?
- What is important to you?



Your Interests & Experiences

- Abilities are you organized, able to teach, to listen, etc?
- General interests/experiences
 - What have you enjoyed?
 - What are you good at?
 - What would you like to learn more about?
- Spare time interests and hobbies
- Previous work experience
 - Technical Skills
 - Transferable Skills



Your Resume

- What is the purpose of a Resume?
 - To represent you and your skills as it applies to a particular position
- Good Resume => Interview
- Good Interview => Job
- Bad Resume => No Interview (& no job!)





The Resume: Your 10 second commercial!

- Appropriate cover letter
- Layout clear, concise, error free, 1-2 pages
- Gain interest most important details first
- Outline technical skills, (project, placement etc)
- Is it relevant to the position you're applying for?



Interview Technique

- Preparation is essential
- What type of interview technical, psychological or informal chat?
- Personal appearance
- Attitude (body language)
- Firm handshake
- Show you are interested prepare thoughtful and intelligent questions
- NOTE: Evaluation starts at Reception



Creative Job Hunting: 80% of Vacancies are Never Advertised!

- Professional Associations
- Advertisements
 - Scientific Journals
 - Newspapers (local and national)
 - Internet
- Networking (professional meetings, friends)
- Specialist Recruitment Agencies
- Job Centers
- Speculative Letters



What Employers Look Out For

- Clear communication skills
 - Verbal: team environment
 - Written: GLP/GMP report writing
- Enthusiasm & Interest
- Commercial awareness
- Adaptability
- IT Skills
- Relevant experience



Typical Industries

- Pharmaceutical Sciences
- Biotechnology
- Functional Genomics, Cell-Based Therapy and Large Scale Protein Production, Medical Devices
- Food, Beverage and Brewing
- Contract Research Organizations
- Customised Analytical and Production Services





Opportunities in These Industries

- Quality Control
- Quality Assurance
- Research & Development
- Formulation
- Process Design and Scale up
- Analytical & Method Development
- Technical Support



People First.

Examples

- QC: analysis of food, cosmetics etc to meet industrial standards
- Investigative analysis: ELISA analysis for meat specialization, DNA screening
- Pharmacokinetics: testing effects of drugs on cells & whole body
- R&D: gene-based therapy





...and if you don't want a lab job?

- Technical sales and marketing
- Regulatory Affairs
- Quality Assurance
- Human Resources, Recruitment
- Teaching
- Patenting



Planning for the Future

- Continue to plan your career path
- Re-evaluate yourself annually
 - What are your long-term / personal goals?
 - Are you moving in the right direction?
 - Are you still learning new skills? What new skills would you like to develop?
 - Are still enjoying this job? If not, why not?
 - Can you progress in this role?
 - What is the boss's view of your future in the company?
- Be proactive is it time to move on?



An Overview

- Know Yourself
- Market yourself effectively
 - Finding the vacancy
 - Resume
 - Interview
- Regularly re-focus on long term career goals
- Think big!



Any Questions?





Younger Chemists Committee of St. Louis ACS

Chemistry Career Night

