Type them into questions box!

“Why am I muted?”
Don’t worry. Everyone is muted except the presenter and host.
Thank you and enjoy the show.

Contact ACS Webinars ® at acswebinars@acs.org
Check out the ACS Webinar Library!
An ACS member exclusive benefit

Hundreds of presentations from the best and brightest minds that chemistry has to offer are available to you on-demand. The Library is divided into 6 different sections to help you more easily find what you are searching.

- **Professional Development**
  - View the Collection
  - Learn how to write better abstracts, deliver more engaging presentations, and network to your next dream job. Brush up on your soft skills and set a new career path by mastering what can not be taught in the lab.

- **Technology & Innovation**
  - View the Collection
  - From renewable fuels to creating the materials for the technology of tomorrow, chemistry plays a pivotal role in advancing our world. Meet the chemists that are building a better world and see how their science is making it happen.

- **Drug Design and Delivery**
  - View the Collection
  - The Drug Design Delivery Series has built a collection of the top minds in the field to explain the mechanics of drug discovery, discover the latest research, receive an overview on different fields of study, and gain insights on how to possibly overcome your own medchem roadblocks.

- **Culinary Chemistry**
  - View the Collection
  - Why does food taste better when it is grilled or what molecular compounds make a great wine? Discover the delectable science of your favorite food and drink and don’t forget to come back for a second helping.

- **Popular Chemistry**
  - View the Collection
  - Feeling burdened by all that molecular weight? Listen to experts expound on the amazing side of current hot science topics. Discover the chemistry of radices, how viruses have affected human history, or the molecular breakdown of a hangover.

- **Business & Entrepreneurship**
  - View the Collection
  - How do ideas make it from the lab to the real world? Discover the ins and outs of the chemical industry whether you are looking to start a business or desire a priceless industry-wide perspective.

https://www.acs.org/content/acs/en/acs-webinars/videos.html

Learn from the best and brightest minds in chemistry! Hundreds of webinars on diverse topics presented by experts in the chemical sciences and enterprise.

**Edited Recordings** are an exclusive ACS member benefit and are made available once the recording has been edited and posted.

**Live Broadcasts** of ACS Webinars continue to be available to the general public several times a week generally from 2-3pm ET!

A collection of the best recordings from the ACS Webinars Library will occasionally be rebroadcast to highlight the value of the content.

www.acs.org/acswebinars
From ACS Industry Member Programs

♦ Industry Matters Newsletter

ACS Member-only weekly newsletter with exclusive interviews with industry leaders and insights to advance your career.

Preview & Subscribe: acs.org/indnews

♦ ACS Innovation Hub

Connect, collaborate, and stay informed about the trends leading chemical innovation

Join: bit.ly/ACSinnovationhub
ACS Career Navigator: Your Home for Career Services

Whether you are just starting your journey, transitioning jobs, or looking to brush up or learn new skills, the ACS Career Navigator has the resources to point you in the right direction.

We have a collection of career resources to support you during this global pandemic:

- Professional Education
- Virtual Career Consultants
- ACS Leadership Development System
- Career Navigator LIVE!
- ChemIDP
- College to Career
- ACS Webinars
- Virtual Classrooms

Visit [www.ACS.org/COVID19-Network](http://www.ACS.org/COVID19-Network) to learn more!

---

Join us in our efforts to increase the diversity of chemistry.

Valued donors like you have sustained ACS educational programs that are welcoming students from diverse backgrounds into our profession.

[www.acs.org/donate](http://www.acs.org/donate)
A Career Planning Tool For Chemical Scientists

ChemIDP is an Individual Development Plan designed specifically for graduate students and postdoctoral scholars in the chemical sciences. Through immersive, self-paced activities, users explore potential careers, determine specific skills needed for success, and develop plans to achieve professional goals. ChemIDP tracks user progress and input, providing tips and strategies to complete goals and guide career exploration.

ACS Department of Diversity Programs

Advancing ACS's Core Value of Diversity, Inclusion & Respect

We believe in the strength of diversity in all its forms, because inclusion of and respect for diverse people, experiences, and ideas lead to superior solutions to world challenges and advances chemistry as a global, multidisciplinary science.

Contact Us:
https://app.suggestionox.com/r/DI_R
Diversity@acs.org
@ACSDiversity
ACS Diversity
acsvoices.podbean.com/

https://chemidp.acs.org

www.acs.org/diversity
More from India Webinar Series!

www.acs.org/acswebinars

https://www.acs.org/content/acs/en/acs-webinars/india.html
Careers in Science and Engineering: Everything that You Need to Know

Presentation slides are available now! The edited recording will be made available as soon as possible.

www.acs.org/acswebinars

This ACS Webinar is co-produced with the ACS International, C&EN Jobs, and ACS Publications.
Careers in Science & Engineering
Everything You Need to Know

Disclaimer: Not a Career Counselling Session!

November 10, 2021
18:00-19:00 IST

Speaker

Prof. Ashutosh Sharma
Department of Chemical Engineering &
Center on Nanoscience

Homepage: http://home.iitk.ac.in/~ashutos
Facebook: @AshutoshSharmallTK
Twitter: @Ashutos61
ACS for Careers

40 sectors listed

https://www.acs.org/content/acs/en/careers/chemical-sciences.html

Career Planning Tool for Chemists

https://chemidp.acs.org/

So, is this **Talk over? !!! 😊😊**

---

Lights & Shadows:
New Challenges & Opportunities

- Convergence of Technologies: Digital; Cyber, Physical; Biological
- Health for All: AMR, Access, Cost…
- Rise of Intelligent Machines: AI, Industry 4.0
- Flow and Anchors of Knowledge
- Environment, Resources, Climate-Sustainable Development
- Globalization
- Huge Impacts on Education, Jobs & Skills
What’s a Successful Career?
Success # Excellence/Satisfaction!

Successful Career

Financial Security  Psychological Security  Achievements  Work/Life Balance  Fulfillment

Audience Survey Question
ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT

Which of the following will influence your decision to choose a career?

• Financial security
• Work/life balance
• Aligns with your interest and strengths
• Social status/occupational prestige
• All of them

* If your answer differs greatly from the choices above tell us in the chat!
Jobs & Careers

Academia: Colleges, Universities, R&D Institutions

Industry: R&D; Product or Process or Tech Development; Quality Control; HR management; Sales & Marketing; Tech Writing; Business Development & Market Research; IP Management

Entrepreneurship & Tech Startups

S & T Management and Administration

Regulatory Compliances; Society & Govt Interfaces

Government, NGOs, Think Tanks

Some Perspectives on Careers:
An Overview

Preparing the ground

Navigating the Challenges

Education, Skills, Jobs & Careers

Sectors & Opportunities
Essentials of Education, Skills, Jobs and Careers

Career
#String of Jobs!

Preparation
Education = Capacity to Learn & Apply

Skills
A Lifelong Battleground!

Soft Skills

Scientific Temper

I. Preparing the Ground: Entering the Dragon!

BSc/MSc/MS/BTech/MTech/PhD

- Matching your discipline/college with your strengths, interests and aspirations NOT herd behavior!
- High School/JEE etc., Burnout?
- PhD or Professor should not just be a default option!
- Scholarships: INSPIRE, Ramanujan, Ramalingaswami, etc.

https://scholarships.gov.in/
http://serb.gov.in/programmes.php
https://online-inspire.gov.in/
Which is the MOST challenging part according to you while looking for a job?

- Finding job opportunities
- Prepare Resume/CV
- Setting-up yourself up for interview
- Preparing Cover Letter
- Suggesting references for ‘letters of recommendation’

* If your answer differs greatly from the choices above tell us in the chat!

II. Preparing the Ground: Taming the Dragon!
II. Preparing the Ground: Taming the Dragon 2!

Develop Scientific Commonsense
Invention vs Innovation mindsets
Mastering the Pyramid of Knowledge!
Respect and Harness Diversity
Develop Confidence

**SOFT SKILLS:** Communication, EQs, Teamwork….

**Importance of Soft Skills!**

Maybe 80% of success is attributable to Soft Skills + People Skills + Attitude (rest 20% from technical knowledge)

Source: Dr. Anubhav Saxena, Pidilite Industries Ltd.
III. Preparing the Ground: Exiting the Dragon!
BSc/MSc/BTech/MTech/PhD….

- KYC: CV / Resume/ SOP
- KYC: Interviews! Ask questions!!
- Post-PhD: N-PDF etc.; Making of an independent scientist
- Continuous upgrading of skills & knowledge
- Climbing the Stairs or Riding the Escalator!
- Early Career Schemes; Startup support

Essential Skills!

- Talking to people! Networking!!
- Outside perspectives
- Connecting the dots
- Independent & Critical thinking
- Leveraging Serendipity
More from India Webinar Series!

https://www.acs.org/content/acs/en/acs-webinars/india.html

Live Long and Prosper, in your Life & Careers
Careers in Science and Engineering

Everything that You Need to Know

Professor Ashutosh Sharma
Institute Chair Professor
Indian Institute of Technology, Kanpur

ASK YOUR QUESTIONS AND MAKE YOUR COMMENTS IN THE QUESTIONS PANEL NOW!

Presentation slides are available now! The edited recording will be made available as soon as possible.

www.acs.org/acswebinars

This ACS Webinar is co-produced with the ACS International, C&EN Jobs, and ACS Publications.
Learn from the best and brightest minds in chemistry! Hundreds of webinars on diverse topics presented by experts in the chemical sciences and enterprise.

**Edited Recordings** are an exclusive ACS member benefit and are made available once the recording has been edited and posted.

**Live Broadcasts** of ACS Webinars® continue to be available to the general public several times a week generally from 2-3pm ET!

A collection of the best recordings from the ACS Webinars Library will occasionally be rebroadcast to highlight the value of the content.
ACS Webinars® does not endorse any products or services. The views expressed in this presentation are those of the presenter and do not necessarily reflect the views or policies of the American Chemical Society.

Contact ACS Webinars ® at acswebinars@acs.org

www.acs.org/acswebinars