

# Welcome to the Best Practices in Neuroscience Education and Training Web Series:

## Creating Individual Development Plans: Reaching Short and Long Term Career Goals

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SfN Committee on Neuroscience Departments and Programs (CNDP)



**Hermes H. Yeh**  
Chair, CNDP  
*William W. Brown Professor & Chair  
Department of Physiology & Neurobiology  
Geisel School of Medicine,  
Dartmouth University*



### Moderator

**Shelley J. Russek**  
Committee Member, CNDP  
*Professor, Pharmacology & Biology  
Director, Graduate Program for  
Neuroscience  
Boston University School of Medicine &  
Boston University*



**SOCIETY for  
NEUROSCIENCE**

# CNDP Mission

## Advance Education & Research Training in Neuroscience

- Enhance the value SfN provides to individual and institutional members (neuroscience departments and programs) to identify and improve the quality of their training missions as well as contribute to sustainability of neuroscience as a choice profession.
- Identify best practices in neuroscience departments and programs that can serve as a resource for established training missions, as well as the formation of new training missions that can impact at both a local and global level.
- Reward the efforts of departments and programs that have developed innovative resources that improve the performance of their students in the laboratory, their enthusiasm as young mentors for the general public and advocates for science, and through professional development programs, their future success in the job market where training in neuroscience is an asset.



2013 SfN Meeting – Keith Trujillo receives award for Neuroscience Educator of the Year at the CNDP Reception



2013 SfN Meeting – Central Michigan University and University of Pennsylvania receive Neuroscience Programs-of-the-Year Awards at the CNDP Reception

# CNDP Mission

## Advance Education & Research Training in Neuroscience

- Vehicles for enhancing the success and quality of member efforts
  - Graduate School Fair
    - <http://www.sfn.org/careers-and-training/higher-education-and-training/developing-training-programs-and-faculty>
  - SfN Institutional Program Membership
    - <http://www.sfn.org/Member-Center/Join-or-Renew/Institutional-Programs>
  - Directory of Neuroscience Training Programs
    - <http://www.sfn.org/careers-and-training/higher-education-and-training/training-program-directory>
  - Educational Resources in Neuroscience (ERIN)
    - <http://erin.sfn.org/>



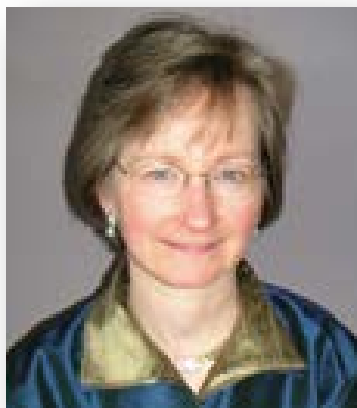
2013 SFN Meeting – graduate school fair brings training programs and potential graduate students together



Hermes Yeh, chair of the CNDP, thanks Joan Frye and Naomi Rosenberg for addressing an audience of 50 participants at the 2013 Spring Conference on Mentoring and Morale.

# Creating Individual Development Plans: Reaching Short and Long Term Career Goals

## Speakers



**Nancy Desmond**

**National Institute Mental Health, NIH**

*Associate Director, Division of Neuroscience and Basic Behavioral Science (DNBBS) at NIMH*



**Ian Paul**

**University of Mississippi Medical Center**

*Professor of Psychiatry and Human Behavior  
Director, Graduate Program in Neuroscience (2006-2014)  
Member, Committee on Neuroscience Departments and Programs, SfN*



**Jennifer Stripay**

*Graduate Student (4<sup>th</sup> year)*

*University of Rochester School of Medicine and Dentistry  
Member of the SfN Trainee Advisory Committee*

# Speaker

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**Nancy Desmond**  
**National Institute Mental Health, NIH**  
*Associate Director, Division of Neuroscience and Basic  
Behavioral Science (DNBBS) at NIMH*

# Characteristics of IDPs

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- Definition: An IDP is a tool that can help individuals with career and personal development.
- Features:
  - A partnership between an individual and mentors/supervisors
  - A living document
  - Encouraged by organizations in both the private and public sector
- Purpose: help individuals reach short- and long-term career goals and to enhance current performance

# NIH and IDPs

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- Why does the NIH encourage IDPs?
  - IDPs were recommended by a working group of the Advisory Committee to the NIH Director on the biomedical research workforce (2012).
    - NOT-OD-13-093 and NOT-OD-14-113
  - IDPs can help assist graduate students and postdoctoral researchers achieve their career goals and contribute to the biomedical research workforce.
- For whom? NIH encourages institutions to develop IDPs for all graduate students and postdoctoral researchers supported by NIH awards.
- No specific IDP is recommended by NIH.
- Report on use of an IDP in your NIH Progress Report.

# NIH BEST Programs

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- BEST = Broadening Experiences in Scientific Training
  - Goal: to strengthen the biomedical research workforce by preparing early career scientists for a variety of career options in the biomedical workforce
  - <http://commonfund.nih.gov/workforce/index>
- IDPs are an integral component of BEST award programs.
- Include exposure to varied career paths that use PhD training via externships, internships, informational interviewing and other approaches.



# Graduate Students and IDPs

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- Graduate students with a laser-like focus on a research-intensive career
  - Research-intensive options?
  - What is the best next step & what skills are needed?
- Graduate students who begin graduate school interested in neuroscience but not in research
  - Research-related options?
  - Career exploration
- Graduate students who are enthusiastic about neuroscience but uncertain about future direction(s) for their career
  - Research-intensive options?
  - Research-related options?

# Postdocs and IDPs

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- Postdocs with a laser-like focus on a research-intensive career
  - Research-intensive options?
  - Academic path vs. pharma/biotech/industrial path
- Postdocs who begin a postdoc intending a research-intensive career but decide not to follow that path
  - Research-related options?
  - Science policy, NGOs/foundations, science advocacy, entrepreneurial options, science communication, etc.

# An IDP is an Ongoing Activity

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- The process of developing an IDP can help you identify
  - Your strengths
  - Long-term career goals and options
  - Short-term goals to enhance your current opportunity
  - Milestones to achieve your objectives
- Using an IDP may also benefit those who are no longer in training.

# Resources

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- MyIDP, an online tool to help scientists prepare their own individual development plan (<http://myidp.sciencecareers.org>)
- NIH Office of Intramural Training and Education: online resources, YouTube videos, videocasts & podcasts of OITE workshops
  - [https://www.training.nih.gov/for\\_trainees\\_outside\\_the\\_nih](https://www.training.nih.gov/for_trainees_outside_the_nih)
- National Postdoctoral Association: career planning resources
  - <http://www.nationalpostdoc.org/careers-24/career-planning-resources>
- IDP for postdoctoral fellows developed by FASEB
  - <http://www.faseb.org/portals/2/pdfs/opa/idp.pdf>
- U.S. Office of Personnel Management IDP
  - <http://www.opm.gov/wiki/training/Individual-Development-Plans.ashx>

# Speaker

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**Ian Paul**

**University of Mississippi Medical Center**

*Professor of Psychiatry and Human Behavior*

*Director, Graduate Program in Neuroscience (2006-2014)*

*Member, Committee on Neuroscience Departments and Programs, SfN*

# Using IDPs Effectively - Outline

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- Why is the IDP different from all other questionnaires?
- What's in it for me?
- What's in it for my trainees?
- Why should my training program want to use it?



# An IDP is a Map

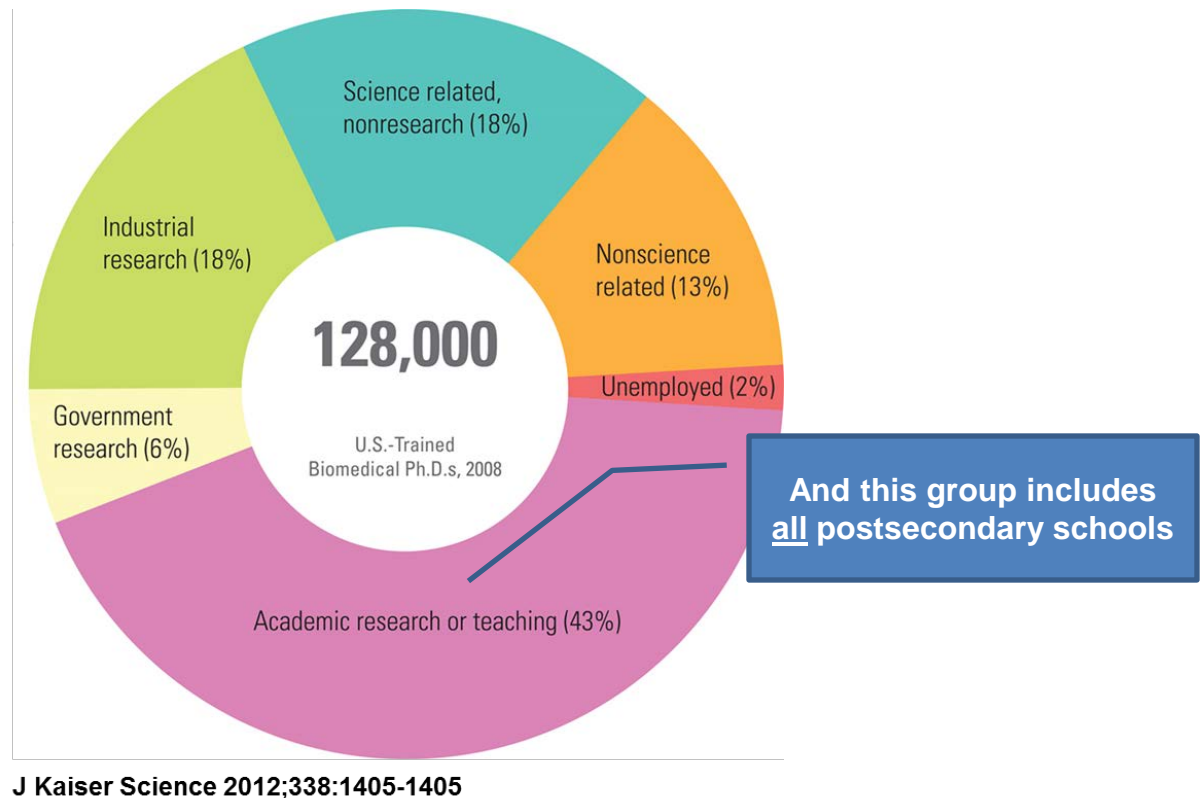
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- “If you don’t know where you’re going, you’re likely to end up somewhere else.”
- Being employed with a PhD in 2014 vs whenever you got your PhD.
- In **1983**, when I started graduate school, there were essentially two options.
  - Clone yourself as your advisor and enter academics (Yay!)
  - Become an industry scientist (Couldn’t hack academia, huh?)
  - **As a result, the map was very simple. It had one starting point and two end points.**
- In **2014**, only one quarter of biomedical PhDs find a job in academics.
  - Funding levels for academic science have dropped.
  - \*?!%! Baby boomers won’t retire!
  - **This complicates the map. A lot.**



# Today: What are My Options???

- What do the 75% of biomedical PhDs who don't become academic scientists do?????
- Teaching
- Industry
- Public policy
- Regulatory agencies
- Intellectual property
- Law
- Government advisors
- Think tanks
- Entrepreneurial opportunities
- ??????





# Students have varying goals

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- You have one job as a mentor: Help your trainee reach his/her goals.
- Your job as a mentor **is not** to mold them to fit your goals.
- Your grant renewal is important, but it won't necessarily help your trainee reach his/her goals.
- It's a delicate balance – like balancing a see-saw on roller skates.

# Unhappy or unfocused trainees are unproductive

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- An IDP is a way to advance your trainee's long-term goals.
- An IDP is also a way to spell out your goals.
- It is often a compromise – an agreement by mutual consent.
- It makes clear what is needed from the trainee and the mentor.



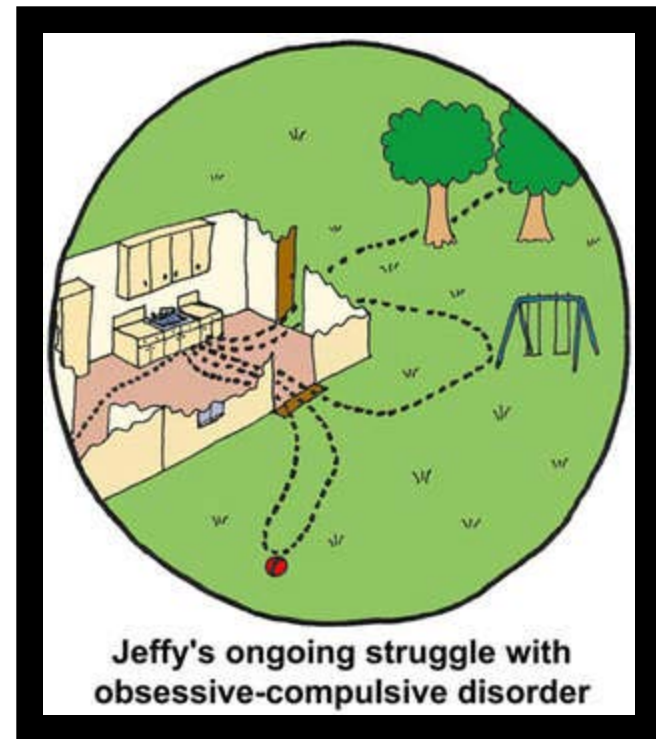
# How is an IDP Structured?

<a href="#"><u>Annual Goals</u></a>	Summary of expectations and responsibilities for each stage of training with links to tips and resources.
<a href="#"><u>Part 1</u></a>	Initiating the IDP: State your career goals and evaluate progress made during the past year.
<a href="#"><u>Part 2</u></a>	Skills assessment: Conduct an assessment of your strengths, weaknesses, and skills; ask your mentor/colleague to also provide an assessment.
<a href="#"><u>Part 3</u></a>	Set goals for the next year: List individual goals, methods to achieve goals, methods to assess progress, and develop a time management plan.
<a href="#"><u>Part 4</u></a>	Implementing your IDP: Set an appointment with your mentor. Discuss your IDP with your mentor; implement the steps in your IDP; periodically review progress with your mentor.



# How Does an IDP Work?

- Identification of goals
- Guided self-assessment
- Mapping
- Milestones
- Periodic revisions



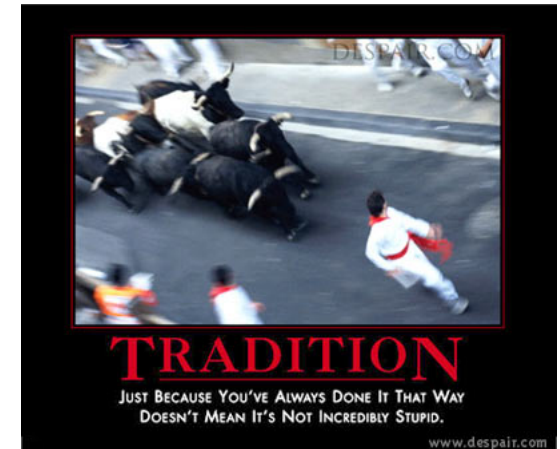
# Mentors and Trainees Actually Get Similar Benefits

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- Clear communication.
- Realistic expectations.
- Achievement of common goals.
- Flexibility as situations and opportunities change.
- Stress reduction.
- Universal peace and harmony (okay, that's probably stretching it).

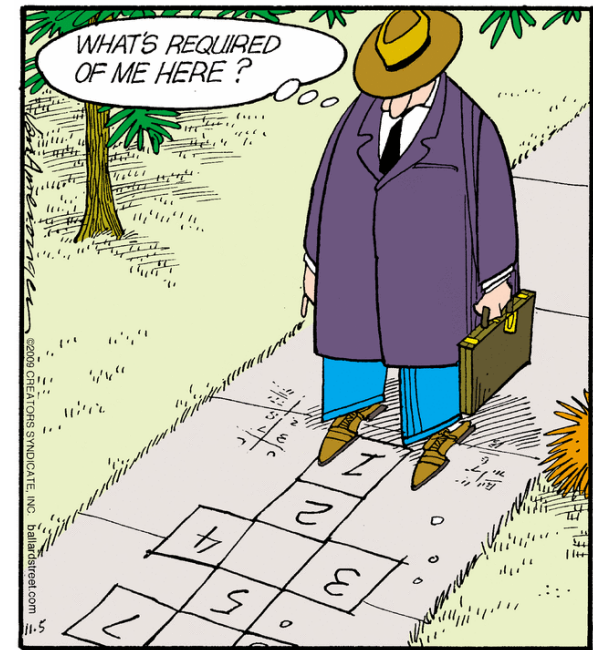
# What's in It for my Program/Institution?

- Clear and customized training plan for each student.
- Measureable milestones.
- Multiple means of measuring success.
- Lower attrition
  - Each student who leaves after 2-3 years costs the program/institution \$60,000+!  
Each student who completes successfully makes it that much easier to get extramural support.
- Reduced dissatisfaction quotient (DQ).
  - $DQ = (\text{total number of unhappy students and/or mentors}) \div (\text{total number of students and mentors})$ .
  - What's your program/institution's current DQ????
  - The higher the DQ, the harder it is to attract the best and brightest to matriculate!!!
    - You may get them to apply because of your name.
    - But today's students find out the DQ very quickly!



# Take Home Points

- Biomedical sciences students have a huge **range of career options**.
- Mentors and trainees are a **team** working toward **common goals**.
- An IDP spells out a **training map** with assessment, goals and, milestones.
- It is a **win-win** proposition.



# Speaker

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**Jennifer Stripay**

*Graduate Student (4<sup>th</sup> year)*

*University of Rochester School of Medicine and Dentistry*

*Member, Trainee Advisory Committee, SfN*



# Why Are IDPs Important for Trainees?

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- Identify Long Term Academic and Career Goals
  - Taking Interests, Skills and Values into Account
- Design an Action Plan for Improvement
- Set Goals for Improving Efficiency and Productivity
- Structure Productive Conversations w/ Mentors

Adapted From:



# IDP Components

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- *Self Assessment*
  - **Skills**: Technical and Scientific Knowledge
  - **Interests**: Tasks you enjoy doing and wish to incorporate into your career
  - **Values**: What is important to you and what rewards and outcomes do you want?
- *Setting Goals*
  - Career Advancement Goals
  - Skills Goals
  - Project Goals

Adapted From:



# IDP Components; Tips

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- *Be honest in your self assessment!*
- *Be SMART when setting goals!*
  - **S**pecific
  - **M**easurable
  - **A**ction Oriented
  - **R**ealistic
  - **T**ime-Bound

Adapted From:



# Additional IDP Components

- Career Exploration Resources*

Career Path	
<b>Business of science:</b> Management consultant; business development professional in a biotech company; venture capitalist; market researcher; investment analyst	<a href="#">Read More</a>
<b>Entrepreneurship:</b> Starting your own business	<a href="#">Read More</a>
<b>Sales and marketing of science-related products:</b> Medical science liaison; technical sales representative; marketing specialist	<a href="#">Read More</a>
<b>Science policy:</b> Public affairs/government affairs staff at scientific societies, foundations, government entities, or think tanks	<a href="#">Read More</a>
<b>Intellectual property:</b> Patent agent; patent attorney; technology transfer specialist	<a href="#">Read More</a>

From:



# Additional IDP Components

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- *Networking*
  - Communication Records
  - Informational Interviews
    - Pros and Cons of a Career Path
    - Transitioning Successfully
    - Effective Job Searching

[http://sciencecareers.sciencemag.org/career\\_magazine/previous\\_issues/articles/2013\\_08\\_14/caredit.a1300173](http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2013_08_14/caredit.a1300173)

- *Mentoring*
  - Expand your Mentor Team!
    - *Academic, Professional, Career*

Adapted From:



# IDP; A Dynamic Tool

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- **Update Your IDP!**
  - Have you developed a new skill? Have you ruled out (or in) a potential career path? Have you reached a milestone in your program?
- **Discuss your IDP with Mentors...Be Creative!**
  - Utilize annual evaluations, performance reviews
  - Pursue training opportunities
  - Seek guidance on strengths and weaknesses

Adapted From:



# IDP Resources

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- MyIDP, an online tool to help scientists prepare their own individual development plan (<http://myidp.sciencecareers.org>)
- National Postdoctoral Association: career planning resources
  - <http://www.nationalpostdoc.org/careers-24/career-planning-resources>
- NIH Office of Intramural Training and Education: online resources, YouTube videos, videocasts & podcasts of OITE workshops
  - [https://www.training.nih.gov/for\\_trainees\\_outside\\_the\\_nih](https://www.training.nih.gov/for_trainees_outside_the_nih)
- IDP for postdoctoral fellows developed by FASEB
  - <http://www.faseb.org/portals/2/pdfs/opa/idp.pdf>

# Resources Continued

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- Columbia University: [Columbia Individual Development Plan \(IDP\) Program](https://www2.gsas.columbia.edu/idp/) or <https://www2.gsas.columbia.edu/idp/>
- [You Need a Game Plan](#) *Science Careers*
- [IDPs for Post Docs](#) *NPDA*
- Vanderbilt University: <https://medschool.vanderbilt.edu/postdoc/individual-development-plan>



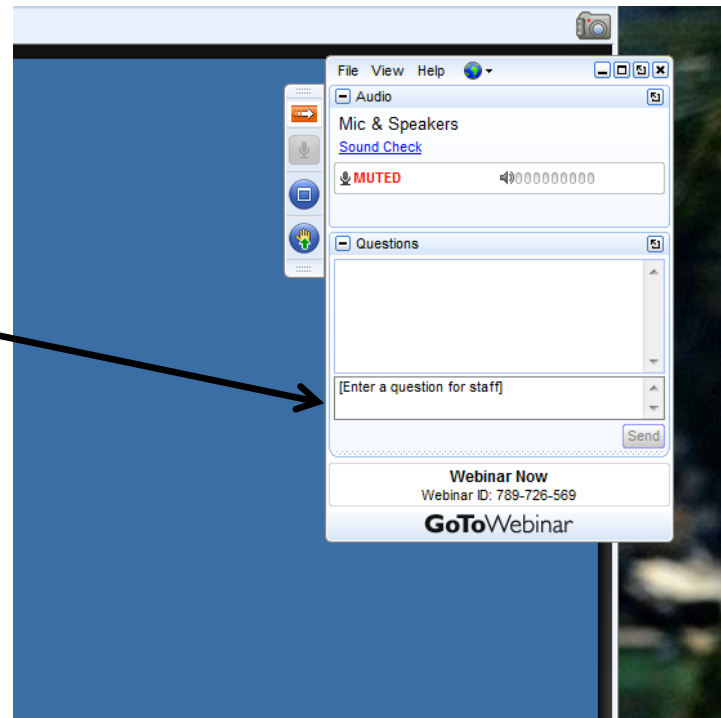
# Resources continued

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- IDP Templates for Mentors:  
<https://mentoringresources.ictr.wisc.edu/MentorIDPTemplates>
- Networking and Job Searching:  
[http://sciencecareers.sciencemag.org/career\\_magazine/previous\\_issues/articles/2013\\_08\\_14/caredit.a1300173](http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2013_08_14/caredit.a1300173)
- Stay tuned for SfN's Members Webinar Series, "Preparing for the Future" on SfN.org or contact [membership@sfn.org](mailto:membership@sfn.org). This webinar series will give practical advice on resume and CV creation, outreach, networking and IDPs.

# Questions?

Submit a question now to the webinar hosts using the “Questions” feature.



After the webinar, continue the conversation on **neuroonline.sfn.org**

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Thank you from SfN's Committee on Neuroscience Departments and Programs (CNDP)

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