Supporting Academic Women in STEM: The Post-Doc Institute

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Outline of this talk

- Need for PDI type workshops?
- Planning the series of workshops
 - topics
 - timeline
 - modes
- Running the workshops
 - choosing the expert panelists and presenters
 - preparing the presenters
 - preparing the audience
- Challenges which had to be overcome
- Evaluation
- Lessons learned





Need for Post-Doc Institute type workshops?



- was a key component of the 2-year post-doc program part of NSF ADVANCE program at UIC
- training for post-docs & grad students
- support and development for new assistant professors

Choice of Topics

- guided by experience as a 40-year academic:
- guided by HHMI / Burroughs-Wellcome workshops [Making the Right Moves. A Practical Guide to Scientific Management for Postdocs and New Faculty, 2nd Ed]

Timeline



Modes used



- Presentation by an expert; discussion
- Panel of experts compare and contrast; discussion
- Guided discussion of case studies (some clear cases, also grey areas)
- Anonymous review of participant's manuscript by topic expert; discussion with mentor how to respond to reviewer comments
- Written anonymous review of participant's proposal by topic expert, followed by panel review of same by discipline experts with program-officer experience

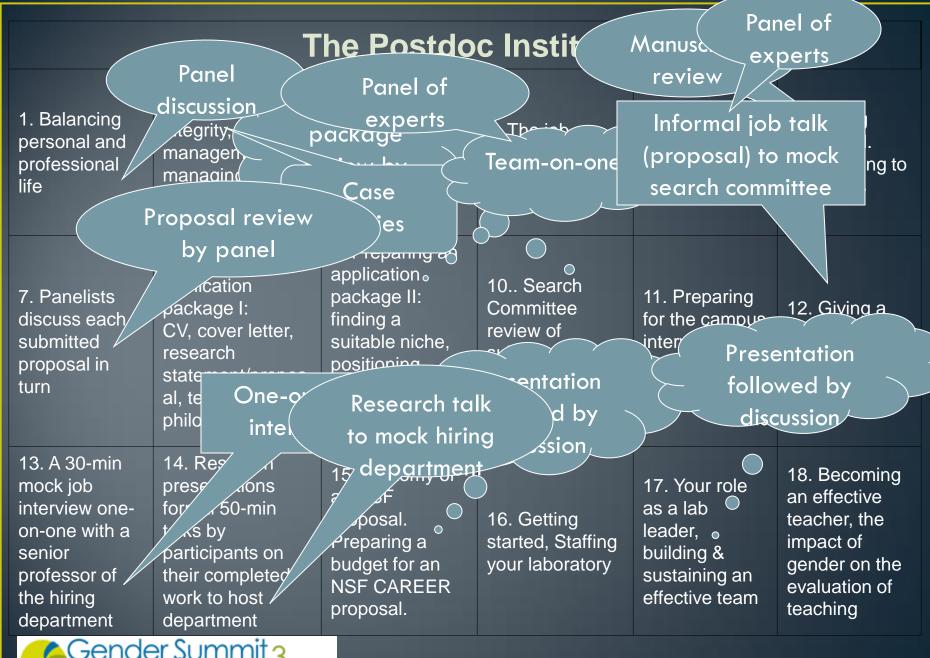


modes used (cont.) ...



- Team-on-one discussion of academic job search; preview of draft application package
- Panel review of complete application package of participant by mock search committee
- Participant "job talk" to panel of faculty (mock search committee members of hiring department) followed by realistic probing Q&A
- Formal research seminar by participant in standard setting of a "hiring department"
- One-on-one 30-min interview of participant with a senior faculty of "hiring department"





Running the workshops



- choosing the expert panelists and presenters, moderator for each session
- preparing the experts
- preparing the participants



Faculty of the Post-doc Institute C

- 39 individuals, 17 women 22 men, all research active (except for budget expert at grants office), 27 full professors, several professors are former or present federal agency funding officers, 3 scientists from Argonne National Lab, several Distinguished Professors, 3 department heads, 2 deans, 3 professors visiting from other institutions
- some served as anonymous expert reviewers of manuscripts and proposals
- 3 professors from liberal arts colleges provided materials, one participated in a panel
- UIC's Research Standards Officer -- Research Integrity



Preparing the experts



- Provide very clear guidelines on goals to be achieved in the specific session
- Give some indication how these goals might be achieved
- Define scope of session and how it fits into series
- Describe sequence and timing of parts of session
- Provide a session flyer with biosketches (& copy of e-mail invitation to participants)

Do not tell them how to do their part.



Preparing the participants



- Provide (a) purpose of session, (b) names & qualifications of experts, (c) the nature of their participation (e.g., submit a proposal by a specific date, bring a list of questions, ...)
- Attach a session flyer to the e-mail invitation to STEM post-docs (occasional senior grad students, first year faculty, as appropriate).
- 3-4 wks ahead of time, collect the 'tickets of admission' to sessions where the participant's work is to be evaluated.



Challenges which had to be overcome



- Recruiting the experts: faculty willing to contribute to the effort, anonymous expert reviewers appropriate for manuscript or proposal, seasoned search committee members, ...
- Getting the participants to provide their own work to be evaluated
- Organizing the labor-intensive sessions, e.g., written reviews of manuscripts prior to 'responding to reviewers' session



Evaluation



- Survey questionnaire administered at end of each session
- On-line survey of mentors included questions about the Post-doc Institute.
- Individual interviews of the 5 WISEST postdocs by project evaluator



Lessons learned

- University of Illinois
 AT CHICAGO
- Each workshop needs planning:

 (a) specific goals, (b) time allotted and mode best suited to achieve these goals, (c) choice of experts.
- Choice of experts is crucial to quality of the session, important to instruct them about goals, scope, context of the session.
- The most successful sessions are very labor intensive and participants had to provide their "ticket of admission" to the session ahead of time (proposals, manuscripts, application packages, job talks: participants prepare materials to be evaluated by experts). Two of the most successful sessions were the panel of proposal reviewers and the mock interview "chalk talk".

 The post-docs did not even



realize what incredibly incisive,

Besides design/planning/implementing, the coordinator needs an assistant who will:



- Monitor a checklist for each session
- Do promotional work (who? research advisers, dept heads, deans, graduate secretary, where? – websites, list-serves, newsletters)
- Maintain e-mail list of possible participants and recipients of promotion
- Print up materials for distribution
- Distribute/collect the attendance/survey questionnaires
- See to the room/AV/refreshments



ACKNOWLEDGMENTS Faculty of the Post-doc Institute













































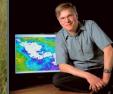




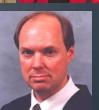




























Thank you Any Questions?

