Faculty Leadership Development Programs at Virginia Tech

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Overview

• Institutional context
• Status of women faculty
• Leadership development programs
• Findings
• Implications
Context: Where is Virginia Tech?
Context: Institutional History

Then:
• Founded 1872
• Land grant college
• Polytechnic with strengths in agriculture and engineering

• Predominantly male, racially segregated, compulsory military until early 1960s
• First women graduated 1925
Context: Virginia Tech today

- Public research intensive university; over 100 doctoral programs, primarily in engineering and sciences
- 30,000 students (44% female)
- Generated $373.3 million for research programs in fiscal year 2008, 46th in the nation
- As of fall of 2009, 1,383 tenured or tenure track faculty members, 26% female
Women as a percentage of S&E doctoral degrees, full-time full professors, and full-time tenure-track faculty: 2006
Science and engineering doctorate holders employed in 4-year colleges or universities who are women, by type of position: 2006
Women Faculty at Virginia Tech by College, Fall 2009

* Total percentage of women in tenure track positions within college
Women as % of Total Full-Time Tenured & Tenure-Track Faculty

Percent of Total Tenured & T-T Faculty

COE  COS  University

Year: 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009
New Full-Time, Tenure-Track Women Faculty

Number of T-T Female New Hires

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<tr>
<th>Year</th>
<th>COE</th>
<th>COS</th>
<th>University</th>
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<tbody>
<tr>
<td>2009</td>
<td>17%</td>
<td>16%</td>
<td>23%</td>
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<td>2008</td>
<td>24%</td>
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<td>12%</td>
<td>31%</td>
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<td>1999</td>
<td>27%</td>
<td>10%</td>
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Women Leaders at VT

- One of eight academic deans
- Ten of 26 associate deans in academic colleges
- Eleven of 61 department heads
- Three of 14 executive administrators
- Three of 13 university-level research center directors
Women Full Professors at Virginia Tech, 1999-2009

Percent of Full Professors


Legend:
- COE
- COS
- University

Graph shows the percentage of women full professors at Virginia Tech from 1999 to 2009, with a steady increase over the years.
Challenges for Women in Academic Leadership

• Leaky Pipeline
• (Lack of) Mentoring
• University Climate
Where do the women go?

http://ucfamilyedge.berkeley.edu/leaks.html
Mentoring

Ladder to academic leadership for women

Lack of high ranking women to serve as mentors

Erratically applied mentoring / pressure against transcending traditional gender patterns
University Climate

- Prohibitive organizational paradigms
- “Old boy networks”
- University policies not enforced
- Exclusion from decision making
Overview: AdvanceVT

• 5-year $3.5M NSF IT grant received in 2003
• Key leaders but also many faculty and collaborators across university involved
• Comprehensive approach:
  • Increasing the number of women in the pipeline
  • Recruitment and retention of women
  • Leadership development
  • Work-life policies
  • Departmental climate
  • Research and assessment
Leadership Development Programs

• Research seed grants (22 awarded)
• Distinguished lectures (1-2/year)
• Faculty leadership lunches (2-3/semester)
• Leadership fellowships (6 awarded)
• Leadership development coaching program (18 participants)
Seminars and Workshops

• Workshops to build specific skills, including communication, resolving conflict, negotiation, power and influence, and time management

• Leadership lunch seminars provide opportunities to interact with current leaders, e.g. department heads, deans, vice-presidents, provost
Leadership Fellowships

- Leadership Fellowships awarded to six women faculty members to complete self-designed leadership development experiences.
Leadership Coaching

• Three cohorts of women selected from across the university for a year of individualized coaching and skill development
Evaluation Outcomes

• Leadership Development Event Evaluations

• Leadership Development Program Participant Interviews

• Faculty Work-Life Surveys
Event Evaluations

• Importance of networking

• Educating faculty on various aspects of academic leadership

• Changing faculty perception of leadership and leaders

“These [events] have been an effective offering and good networking. The more faculty can understand the thinking of university leaders, the more engaged they can be as well as supportive.”

• Yet women faculty at the institution continue to be ambivalent about entering into leadership positions
Leadership Development Program Interviews

• Participants indicated that their leadership skills and confidence to pursue leadership opportunities increased, but only a few of the participants expressed a desire in the near future to pursue leadership positions.

• Participants felt that the program helped them to attain greater success in their current positions and to participate more fully in department leadership opportunities.

“I accepted a department head’s position and without those two experiences [LDP and a national leadership program] I would have never considered it…”
Leadership Development Program Interviews

- Consistent with data from the leadership event evaluations, most participants articulated the belief that administrative roles required much more time and effort than originally expected. Furthermore, such positions take away from activities traditionally associated with being a faculty member, such as research and teaching.
Faculty Work-Life Surveys

Percentage of tenured and tenure track men and women who strongly or somewhat agree:

- Possible to hold leadership position and balance work and personal life
  - Women: 18
  - Men: 26
  - Total: 44

- Possible to hold leadership position and maintain active research
  - Women: 24
  - Men: 39
  - Total: 63

Women: Dark red, Men: Orange
Findings

• Women continue to exhibit conflicting attitudes towards leadership.
• Concern over amount of work involved and the corresponding time commitment required in taking on leadership positions as a faculty member.
• Women with young families and/or at the associate professor level are particularly hesitant to take on formal leadership roles given the importance of research output for achieving promotion to professor.
Implications

• Institutions must not only provide resources to help individuals prepare for leadership roles, they must also examine their expectations of leaders and structure of leadership positions.

• Policies that facilitate work-life balance for faculty members may also play a role in filling the pipeline of qualified women for leadership positions.

• Future research should delve more fully into the success of the ADVANCE grants in transforming universities, and the subsequent way these efforts impact how leadership is defined at those institutions.
Acknowledgements

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For more information:

www.advance.vt.edu