

University of Illinois at
Urbana-Champaign
Department of Mathematics



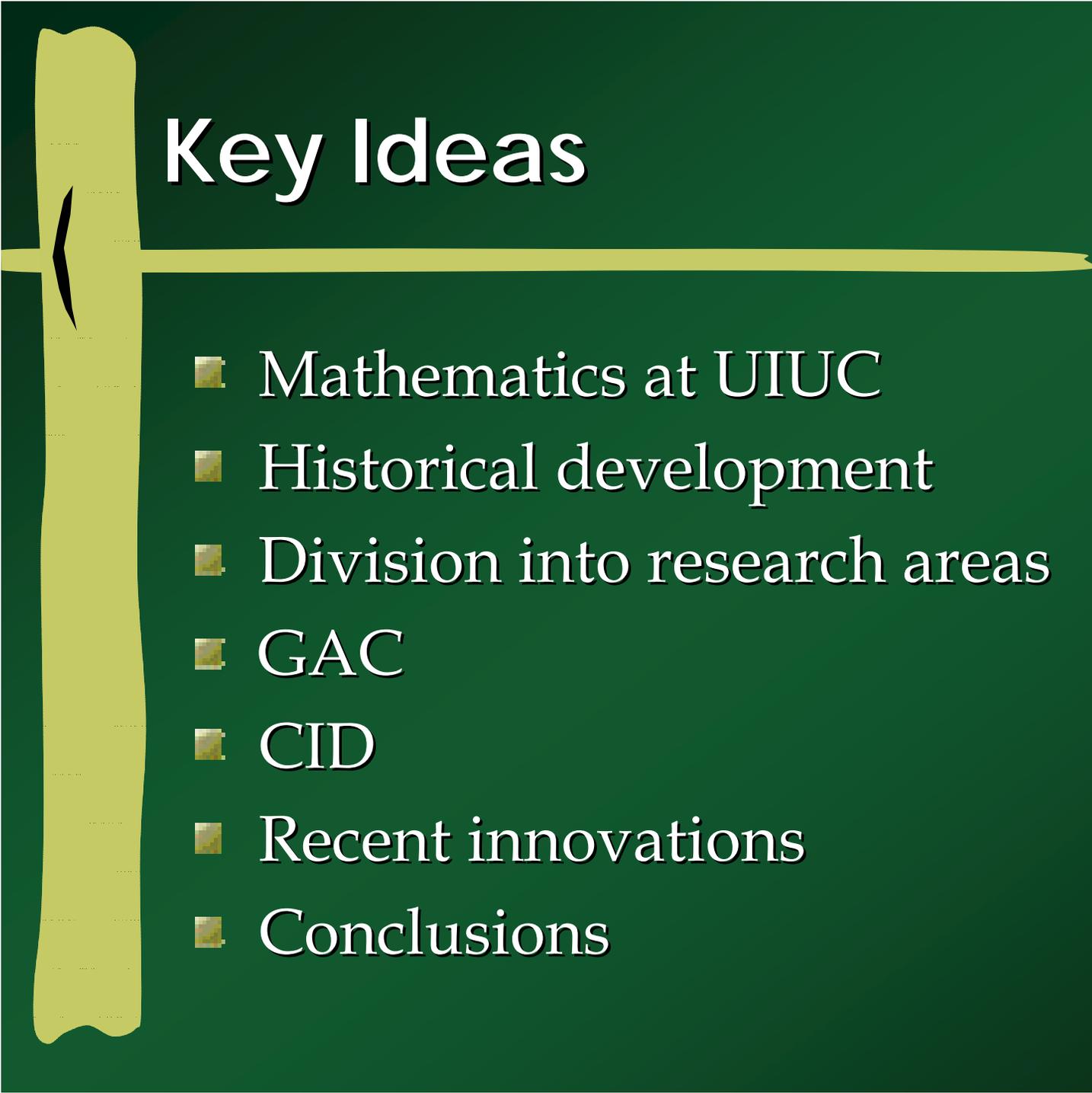
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Key Ideas



- Mathematics at UIUC
- Historical development
- Division into research areas
- GAC
- CID
- Recent innovations
- Conclusions

Mathematics at UIUC

- 43 Professors
- 16 Associate Professors
- 18 Assistant Professors
- 8 Doob Postdocs
- 9 VIGRE Postdocs
- 3 Other Postdocs
- 14 Visiting Faculty
- 8 Visiting Scholars
- 7 Teaching Associates

Graduate Program

- Fall enrollment 2003 (196, 55 women)
- Applications

Year	Appl.	Admits	Arrivals
2003	385	155	30 (budget cuts)
2002	372	177	52
2001	302	208	53
2000	235	145	50

Historical Development

- Sputnik \Rightarrow Scientific funding \Rightarrow Increase in department size
- 1980, UIUC had 100 math professors
- 2003, UIUC has 77 math professors
(also 10 in Statistics Department)
- Future

Research Areas

- Algebra
- Analysis
- Number Theory
- Logic
- Combinatorics and Optimization
- Geometry and Topology
- Differential Equations and Applied Math
- Probability
- Algebraic Geometry

Recent Innovations

- Redesign of comps (1996)
 - Breadth and depth
 - Interdisciplinary mathematics
- Math 400
- Math 500
- RAPs (VIGRE)
- REGs (2003)
- AVC (2003)

GAC and CID

- Used GAC for CID discussions
- Time to degree report
- Mentoring report
- Creation of REGs
- Creation of AVC
- Endless discussion of exam system
- CID survey

Conclusions

- Graduate program requires deeper discussion
 - AVC
 - Use CID to launch discussion
- Eliminate division into subject areas
- More RAPs, REGs, etc.
- Better research teamwork
 - Move towards physics model?
 - Faculty involvement in graduate student research