

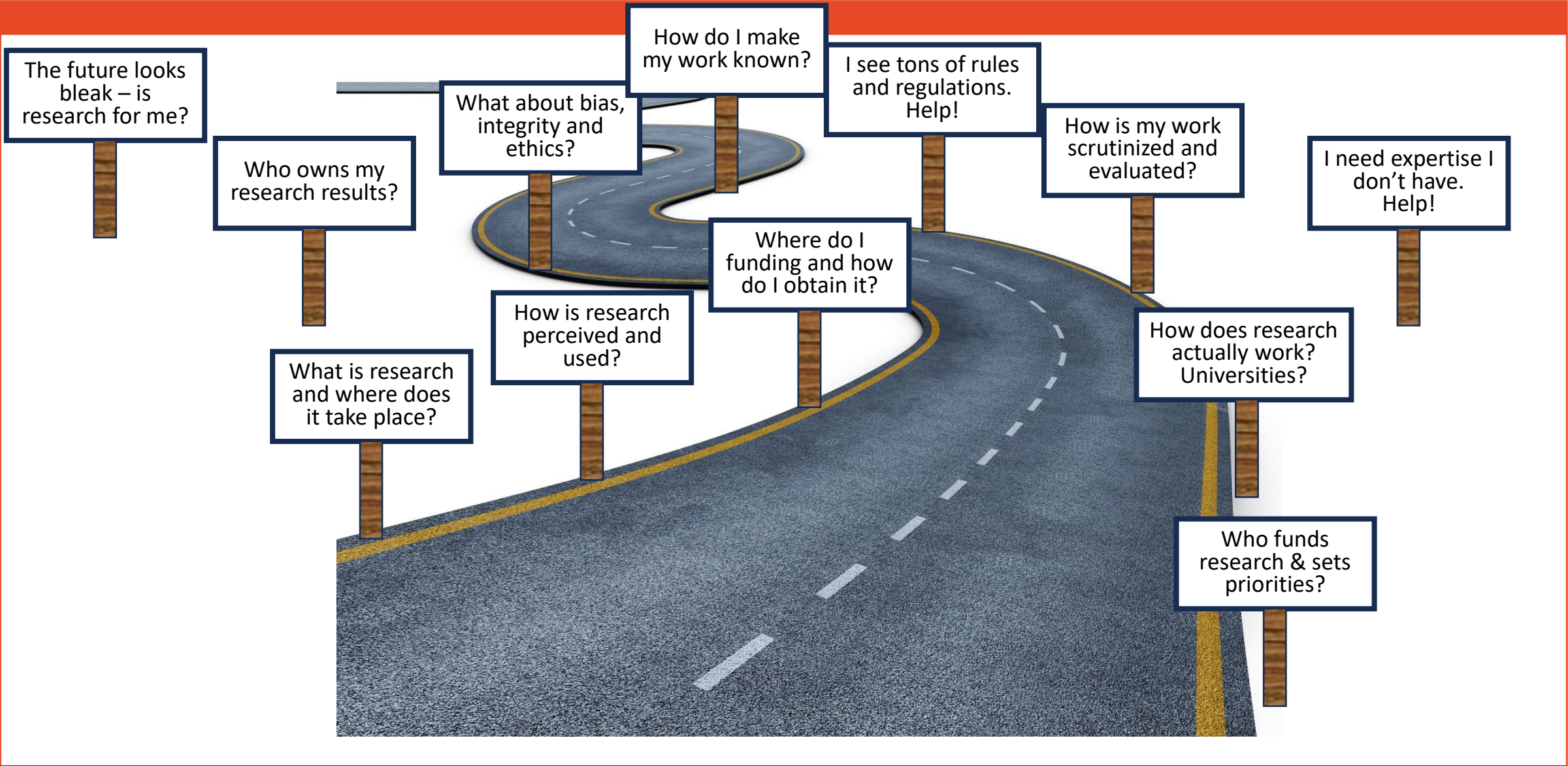
Demystifying the Academic Research Enterprise

Kelvin K. Droegemeier
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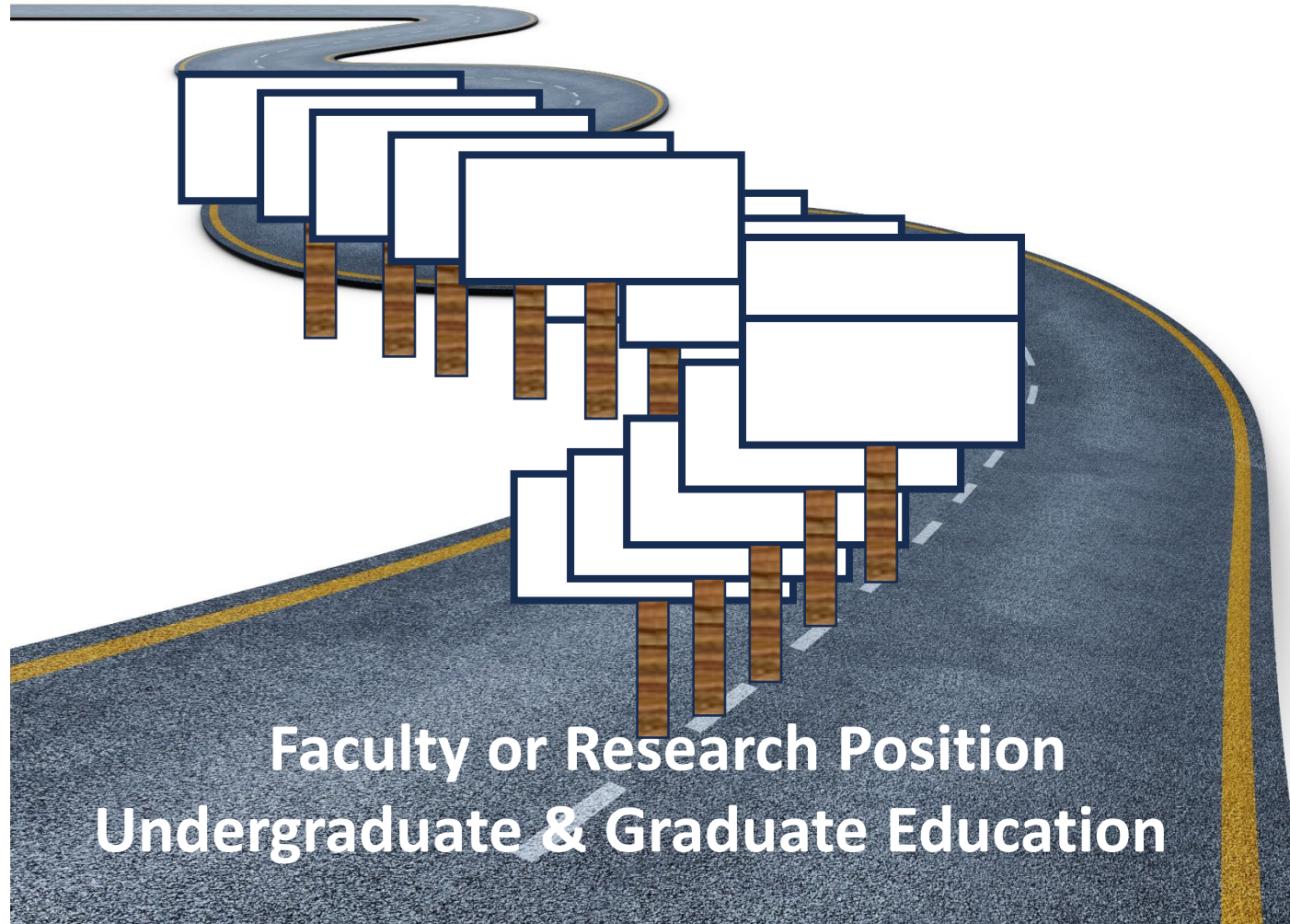


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School of Earth, Society and Environment (SESE)
College of Liberal Arts and Sciences (LAS)



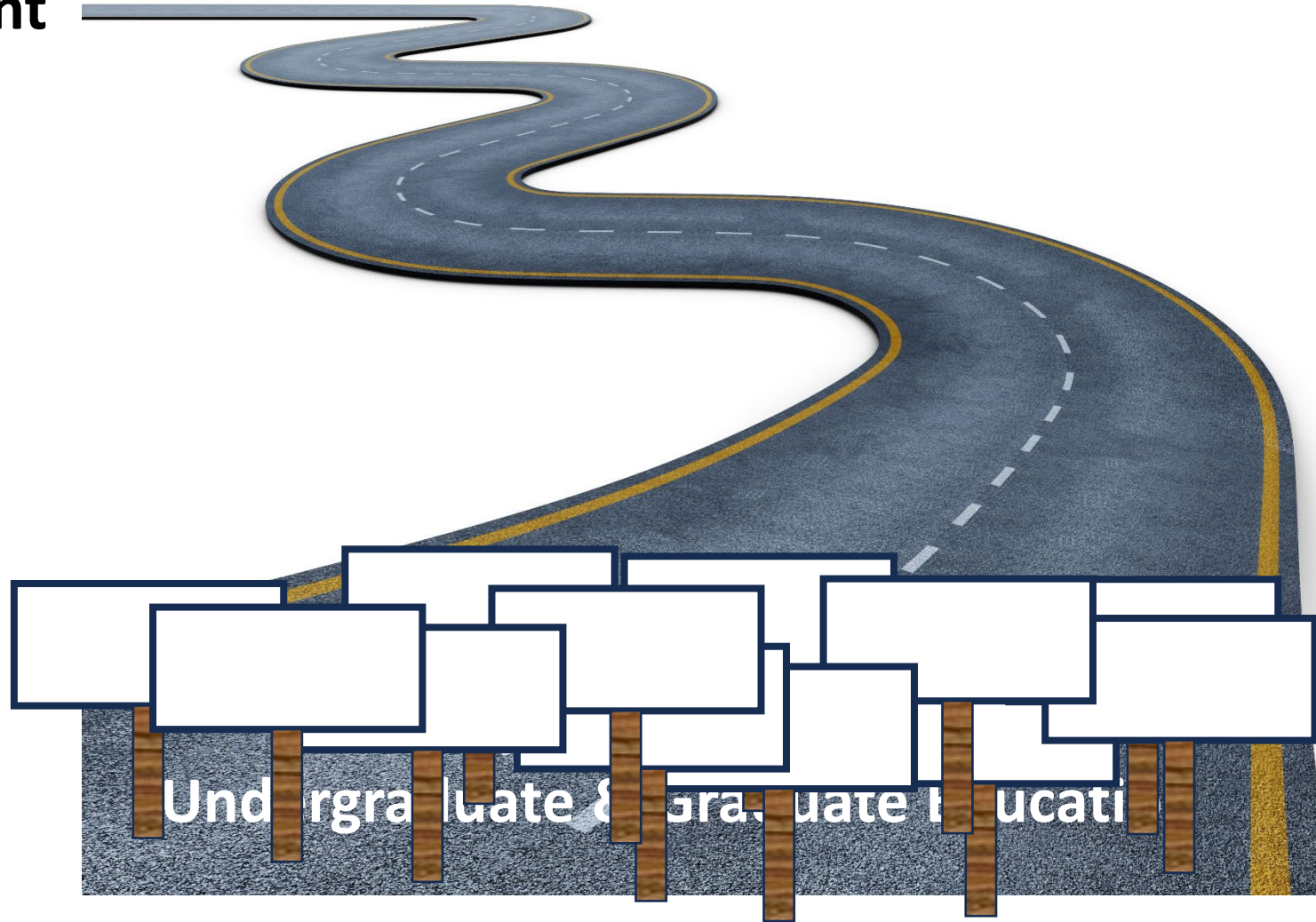
Retirement



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Retirement



- A new resource for research administrators, graduate and undergraduate students, all faculty (especially early career), and post-docs
- ALL DISCIPLINES – Art to Zoology!
- All types and sizes of institutions, especially MSIs, ERIs and PUIs
- Specific guidance for those at underserved & underresourced institutions
- Published by MIT Press on December 19, 2023
- **Open Access – FREE!!**
- Facilitator Guide
- All author royalties go to the U of I General Scholarship Fund



Demystifying the **Academic Research Enterprise**

**Becoming a Successful
Scholar in a Complex and
Competitive Environment**

Kelvin K. Droegemeier

- **Not a how-to guide but an educational resource**
- **Learning objectives**
- **Questions to assess comprehension**
- **Deep-dive exercises**
- **Lots of references to COGR!**
- **Great resource for required student and post-doc mentoring plans**

Assess Your Comprehension

Exercises to Deepen Your Understanding

Exercise 1: The US House of Representatives Committee on Science, Space and Technology (HSST) authorizes funding for agencies such as the National Science Foundation (NSF), the National Aeronautics and Space Administration (NASA), and the National Oceanic and Atmospheric Administration (NOAA). Select one of these agencies and, for a selected fiscal year, follow the process by which its budget for research and related activities was determined, debated, and then approved. Start with the president's budget and then proceed to House budget bills, HSST hearings, and HSST and House committee and subcommittee meetings, ending with actions by the full House.

Exercise 2: Using the Internet, locate the last ten to fifteen years of yearly research and development (R&D) priority memos issued jointly by the White House Office of Management and Budget (OMB) and Office of Science and Technology Policy (OSTP). Examine carefully how the stated priorities have changed over time and the extent to which certain priorities have persisted or been modified to reflect the views of the president and society at large. See if you can connect priorities in the R&D memo with specific programs in one or two federal agencies.

9. What is the difference between mandatory and discretionary spending in

- Chapter 1: **Deep in our Bones**: Why and Where We Perform Research and Creative Activity
- Chapter 2: **The Money Trail**: Funding for Research and Creative Activity
- Chapter 3: **Perception and Reality**: Public Attitudes, Understanding, and Use of Research
- Chapter 4: **Essential Concepts**: Performing Research and Creative Activity
- Chapter 5: **Becoming a Detective**: Finding What You Need and Using it Effectively
- Chapter 6: **Diving into the Pool**: Research Proposals, Evaluation Processes, and Project Management
- Chapter 7: **The Give and Take of Criticism**: Subjecting Research to Scrutiny via Peer/Merit Review
- Chapter 8: **We See the World Differently**: Bias and Differing Views
- Chapter 9: **Honesty is the Best Policy**: Ethical Conduct and Research Integrity
- Chapter 10: **Better Safe than Sorry**: Research Compliance
- Chapter 11: **Show Time**: Making Your Work Known to Multiple Audiences
- Chapter 12: **Yours, Mine and Ours**: Ownership of Research Outcomes
- Chapter 13: **I Need You and You Need Me**: Collaboration, Multidisciplinary Inquiry, and Academic-Corporate Partnerships
- Chapter 14: **A Glass Half Empty or Half Full**: Challenges and Opportunities for the U.S. Academic Research Enterprise

“This new book is a fantastic resource for helping next generation scholars gain a practical understanding of all facets of research and creative activity—knowledge that took me an entire career to acquire but which now is accessible to all in a single resource.”

—**Jeff Kelly,**
Corix Chair in Environmental Sustainability and Professor of Biological Sciences, University of Oklahoma

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Book at MIT Press Website

