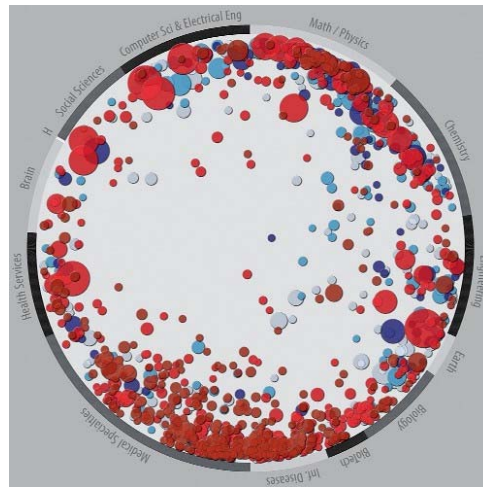


Brief Bio and (PR)²: Problems & Pitches – Rants & Raves by *Kevin Boyack*

Photo and Icon



Brief Biography

Kevin W. Boyack has been with SciTech Strategies, Inc. (www.mapofscience.com) for 2 years now after working for 17 years at Sandia National Laboratories. He received a PhD in Chemical Engineering from Brigham Young University in 1990, and has worked in a variety of fields since that time. These include combustion (experimental and modeling), transport processes, socio-economic war gaming, and most recently, knowledge domain visualization or science mapping. At SciTech Strategies, he and Dick Klavans create maps of science for planning and evaluation purposes. His interests include metrics and indicators, text mining, data fusion, and expanding the application and uses of science mapping.

Publications

- Klavans, R., & Boyack, K. W. (accepted). Toward an objective, reliable, and accurate method for measuring research leadership. *Scientometrics*.
- Klavans, R., & Boyack, K. W. (2009). Toward a consensus map of science. *Journal of the American Society for Information Science and Technology*, 60(3), 455-476.
- Boyack, K. W., Klavans, R., & Börner, K. (2005). Mapping the backbone of science. *Scientometrics*, 64(3), 351-374.
- Boyack, K. W. (2004). Mapping knowledge domains: Characterizing PNAS. *Proceedings of the National Academy of Sciences*, 101, 5192-5199.
- Börner, K., Chen, C., & Boyack, K. W. (2003). Visualizing knowledge domains. *Annual Review of Information Science and Technology* 37, 179-255.

Current Projects

- Measuring research leadership (countries and institutions)
- NSF: SciPolicy macroscope – linking data types (specifically grants, articles, patents)
- Dynamics of science at the paradigm level
- More information available at <http://www.mapofscience.com/>

General Questions

1) What is (are) your main interest(s) in attending the workshop?

To learn and understand more about how science has evolved from historical, sociological, and philosophical points of view. This understanding is necessary in order to more accurately model the evolution of science using bibliographic sources.

2) What would you like to learn / achieve at the workshop?

To meet and establish a correspondence with potential collaborators regarding research on the evolution of science.

3) ***If you are a philosopher of an historian of science:*** In what ways might people that study and map science benefit from your work?

If you are a scientometrician/science map maker: In what ways might philosophers or historians of science benefit from your work?

I would hope the benefits of putting these groups together would not be merely the streams mentioned above (flows of knowledge from historians to map makers or vice versa), or “interdisciplinary” effects. Rather, I would hope that this meeting would result in collaborations where “transdisciplinary” work could move forward, where real teaming occurs, and where real history and theory inform the making of science maps by historians and science mappers, and where these science maps could help historians elaborate on real history at different levels of aggregation.

***Please send the completed document by June 11th, 2009
to Katy Borner <katy@indiana.edu> and Mark Price <maaprice@indiana.edu>***