



A Career in Research and Academia: Perspectives from Personal Experiences

John W. Bandler

2022 IEEE MTT-S Young Professionals Workshop
on Modeling and Optimization for Active Devices (MOAD 2022)

October 25, 2022

Presented via Zoom

John Bandler: Creativity, Cooperation, Conflict

embrace risk, you have permission to fail

combat fear, flattery, guilt, resistance...

beware of detractors & experts' agendas

remember: experts (and you) resist change

find your champions, cooperate, acknowledge...

resist secrecy between colleagues

respect, empathize with, your audience(s)

recognize the work and success of others

your breakthrough is staring you in the face

John Bandler: **Early Stage Career Advice**

cherish champion(s)

be creative (imaginative, daring)

research rabbit holes don't exist

combat fear, embrace conflict (it's unavoidable)

seek cooperation, acknowledge collaborators

trust colleagues, be skeptical of "experts"

be ethical

cherish setbacks

your success hides in plain sight

Bandler's Career Seminars & Workshops 1

“The first impression is a lasting impression: observations on life, competition, and professional advancement,” 2011.

“Routes to success in academic research: a personal perspective,” 2012.

“From creativity to success via risk and setback: an insider's perspective,” 2013.

“Awareness, creativity, and creative thinking,” Keynote Speech, WIM, 2014.

Bandler's Career Seminars & Workshops 2

“Creativity in the real world: champions, detractors and what certain gurus would rather you didn't know,” 2014.

“Don't dodge ethics on your route to success,” 2015.

“Explain less, predict more,” TEDx, 2014.

“Effective presentations,” IMS, 2016.

“You, you slides and your posters: allies or foes,” 2016.

“Presenting, promoting, pitching: and why you'll never get a second crack at a first impression,” 2017.

“Great slides. Great script. But can you deliver?,” 2018.

“Engaging real people in three realistic minutes,” 2021.

For Further Study, Google:



John Bandler's YouTube channel (2009-2022)

MTT IMS YouTube 3MT playlists (2017-2022)

McMaster ECE Department 3MT playlists

IEEE Microwave Magazine 3MT articles (2017-2022)

**John Bandler's Microwave Journey:
Towards **Cognition-driven Design**
Automating **the Expert's Mysterious "Feel"****

1963 starts microwave engineering research
1983 starts Optimization Systems Associates
1993 discovers space mapping (SM)
2003 sees everyday examples of space mapping
space mapping now diversely influential
2023 receives IEEE Electromagnetics Award
your breakthrough is staring you in the face

THANK YOU

**IEEE MTT-S
YOUNG PROFESSIONALS**

**WORKSHOP ON MODELING
AND OPTIMIZATION FOR
ACTIVE DEVICES**

Virtual Event
via Zoom

25th October 2022, 10:00 - 16:15 UTC

Sponsored by MTT-S TC-2 Design Automation Committee

The banner features a circular inset photo of four people waving in front of a sign that reads "IEEE youngprofessionals". Logos for IEEE MTT-S and the Design Automation Committee are also present.

