# **Innovation and Collaboration with Industry**

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# Objective – The Five "I's"

- Inspiration
- Imagination
- Innovation
- Intellectual property
- Industry



#### **Outline**

- Inspiration Imagination innovation
- Intellectual property
  - Documenting your idea
  - Whose idea is it? Residency and intellectual property
  - Sharing your idea
- Partners in success Working with industry
  - Options for moving ideas forward
  - How do you find and select and industry partner
  - Realistic expectations
  - The process of creating a medical device

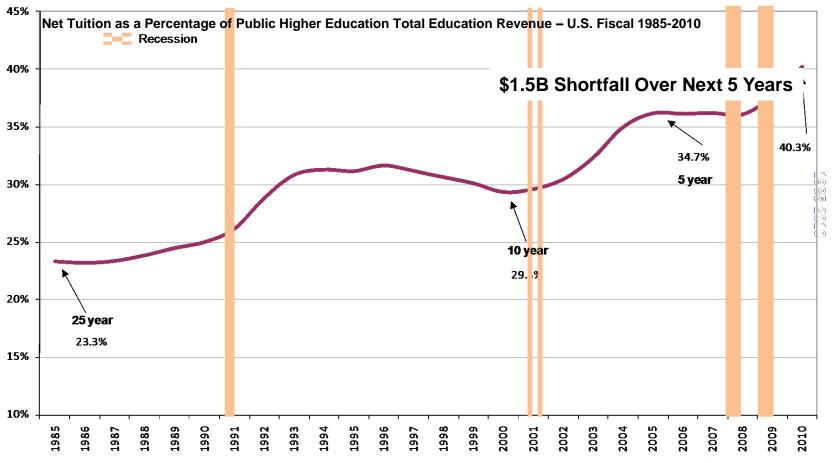


## Why innovate

- 1. Further primary mission of patient care
- 2. Intellectual curiosity and satisfaction
- 3. Revenue
  - University
  - Community
  - Personal

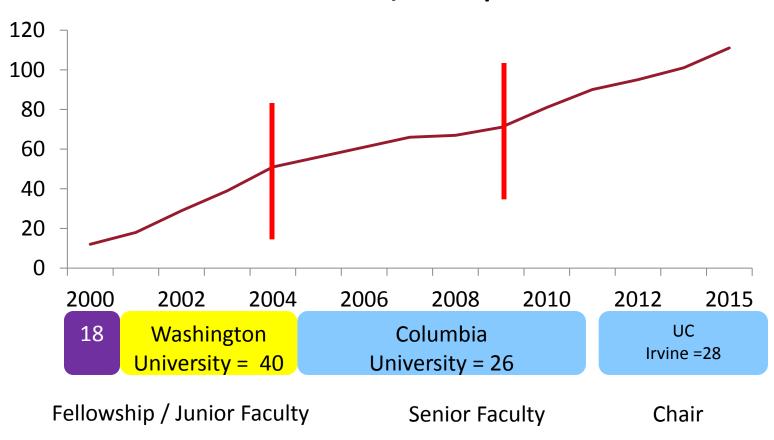
## Why generate revenue

Across public higher education, commercialization efforts are becoming more important due to declining public subsidies and the search for alternative funding sources



# Life and inspiration

### **Novel Ideas / Concepts**





#### Find a mentor

#### **Difficult**

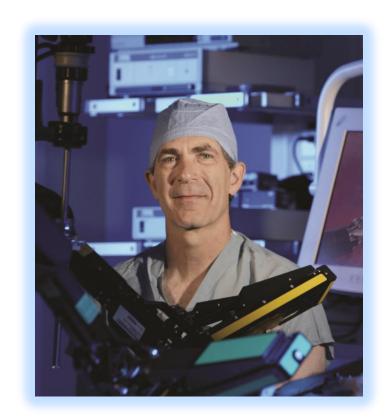
Identify a mentor with a track record of innovation

#### More difficult

Identify the altruistic mentor

#### **Most difficult**

Become the altruistic mentor



# **Imagination – Inspiration - Innovation**

### Actively work towards creativity

Isolate problems (don't just work around them) – assume everything can be better Identify how and when you are inspired and create your own <u>fertile ground!</u>







## Fertile ground for innovation

Identify employment opportunities which support innovation

Create a "team" environment which emphasizes collaboration and innovation

"None of us are as smart as all of us"

Dean R V Clayman

Actively seek out medical and non-medical partners

Engineering

Nephrology

Basic scientist

Pathology

**Physiologist** 

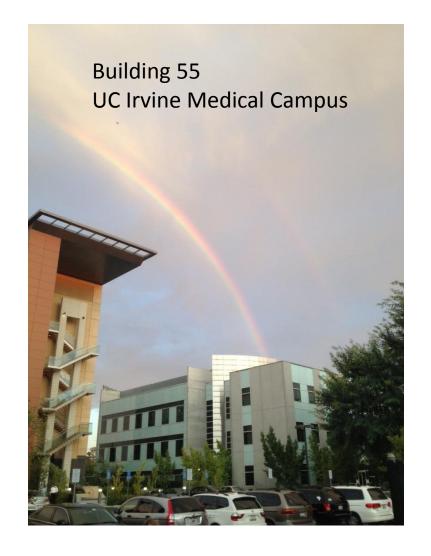
Anatomy

**Computer Science** 

Surgery

Art

Industry





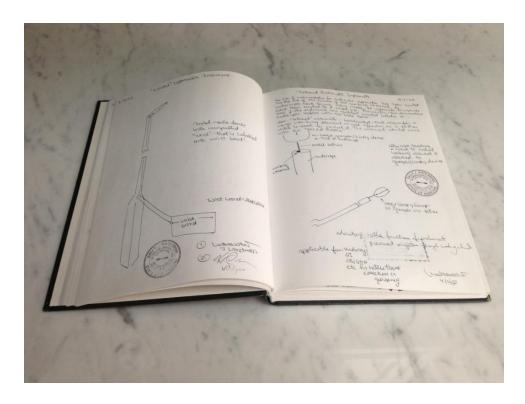
# **Document your ideas**

Create a <u>bound</u> idea book with blank <u>numbered</u> pages

Document each idea with a date and signature

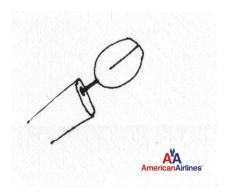
Notarize each idea

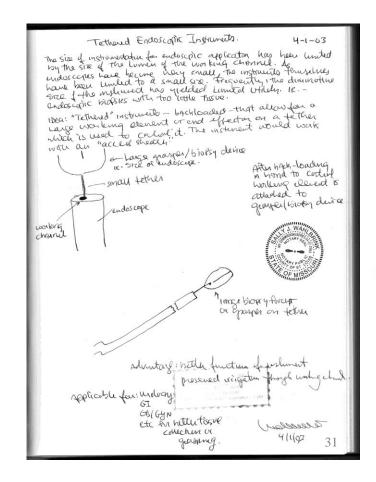
Having the book is in itself inspirational

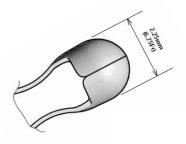


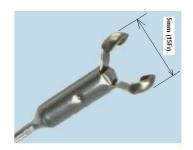


### **Documenting your idea**











### **Secret weapons**

- Partnerships (friendships)
   based on trust!
- Partner with people you trust and who manifest only the highest degree of integrity
- Be fair in your expectations and thoughtful about sharing credit



Mr. Walter Ryan Met at 20<sup>th</sup> WCE 2002



### **Document your ideas**

Disclosure to the Office of Technology Alliances

Review each idea and determine if the University wishes to pursue or decline

Accepted intellectual property is evaluated for patent

Legal assistance to gain a patent is provided by the University

University assists the investigator to find an outlet for the IP (eg industry partner)



### **Confidence in your ideas**

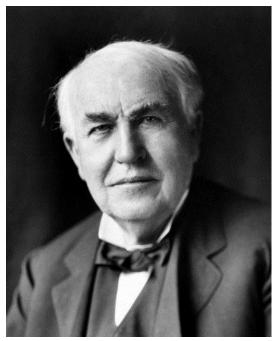
Your best ideas will elicit the most robust antagonistic response you can imagine

Currently working on a <u>successful</u> project that has been rejected by fine institutions (Washington University and Columbia University) who have a track record of "innovation"

Industry will similarly not always have vision to appreciate your ideas

Listen to the critics so you can learn their concerns, but have <u>confidence and persistence</u> in pursuing your innovative ideas







#### Whose idea is it?

Residents are considered paid employees and have signed a "patent acknowledgment." IP is the property of the university just as with any faculty member

Work done outside the scope of residency responsibilities can be considered independent, but must have the Dean's written approval

#### Revenues are divided:

35% inventor(s) 15% unit or department 50% Regents of the UC



## **Options for moving ideas forward**

### Licensing to an existing company

- Most standard approach
- Exclusive vs. non-exclusive
- Licensing fees and royalties generated
- More work done, higher expected gain

### **Startup Company**

- University will still license the IP
- Similar fees but can be deferred/waived and can be negotiated for ownership
- University will want its investment back

#### **Patent Sales**

Rarely done and only if no federal funding

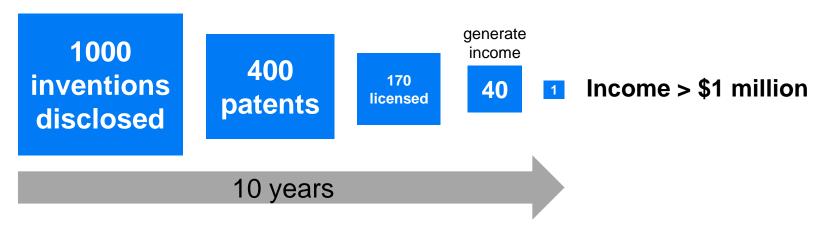


## What are realistic expectations for inventors?

 Understand process which is lengthy and unpredictable

10 universities account for 60% of royalty income At UC, .2% of disclosures account for 80% of revenues

Low yield



Impact is far greater than just income from licenses

