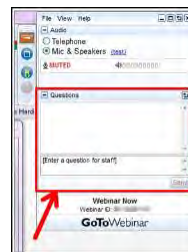
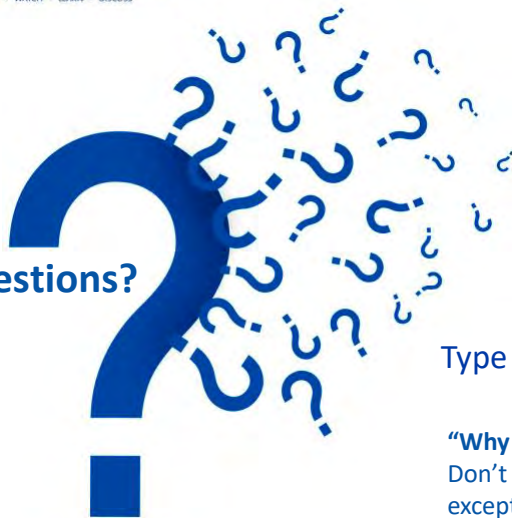




Have Questions?



Type them into questions box!

“Why am I muted?”

Don't worry. Everyone is muted except the presenter and host. Thank you and enjoy the show.

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1

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2

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Hundreds of presentations from the best and brightest minds that chemistry has to offer are available to you on-demand. The Library is divided into 6 different sections to help you more easily find what you are searching.

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From renewable fuels to creating the materials for the technology of tomorrow, chemistry plays a pivotal role in advancing our world. Meet the chemists that are building a better world and see how their science is making it happen.

Drug Design and Delivery

▶ View the Collection

The Drug Design Delivery Series has built a collection of the top minds in the field to explain the mechanics of drug discovery. Discover the latest research, receive an overview on different fields of study, and gain insight on how to possibly overcome your own med chem roadblocks.

Culinary Chemistry

▶ View the Collection

Why does food taste better when it is grilled or what molecular compounds make a great wine? Discover the delectable science of your favorite food and drink and don't forget to come back for a second helping.

Popular Chemistry

▶ View the Collection

Feeling burdened by all that molecular weight? Listen to experts expound on the amazing side of current hot science topics. Discover the chemistry of rockets, how viruses have affected human history, or the molecular breakdown of a hangover.

Business & Entrepreneurship

▶ View the Collection

How do ideas make it from the lab to the real world? Discover the ins and outs of the chemical industry whether you are looking to start a business or desire a priceless industry-wide perspective.

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3

3



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<p>acs campus.acs.org/resources</p>    		

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From ACS Industry Member Programs

- ### ◆ Industry Matters Newsletter

ACS Member-only weekly newsletter with exclusive interviews with industry leaders and insights to advance your career.

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- 


Connect, collaborate, and stay informed about the trends leading chemical innovation

Join: bit.ly/ACSinnovationhub

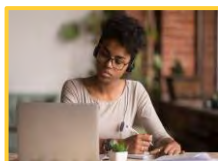
6

ACS Career Navigator: Your Home for Career Services



Whether you are just starting your journey, transitioning jobs, or looking to brush up or learn new skills, the **ACS Career Navigator** has the resources to point you in the right direction.

We have a collection of career resources to support you during this global pandemic:



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Education



Virtual Career
Consultants



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ChemIDP



College to Career



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7

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Join us in our efforts to increase the diversity of chemistry.



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ACS Office of Philanthropy
Chemistry for Life®

8

8

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<https://chemidp.acs.org>

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ACS Bridge Program



Are you thinking of Grad School?

If you are from an underrepresented racial or ethnic group, we want to empower you to get your graduate degree!

The ACS Bridge Program offers:

- A FREE common application that will highlight your achievements to participating Bridge Departments
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ACS Department of Diversity Programs

Advancing ACS's Core Value of Diversity, Inclusion & Respect



We believe in the strength of diversity in all its forms, because inclusion of and respect for diverse people, experiences, and ideas lead to superior solutions to world challenges and advances chemistry as a global, multidisciplinary science.

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ACS Diversity



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www.acs.org/diversity

11

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Targeted Delivery of RNA-targeted Therapeutics



Date: Thursday, July 29, 2021 @ 2-3:30pm ET

Speaker: Punit Seth, Vice President, Ionis Pharmaceuticals

Moderator: Charvi Nanavati, Ionis Pharmaceuticals

[Register for Free!](#)

What You Will Learn:

- What are the general principles for delivery of RNA-targeted oligonucleotide drugs.
- How local delivery occurs to tissues such as the lung and the CNS
- How receptor-mediated delivery to hepatocytes, pancreatic beta cells, skeletal muscle and heart tissues occur

Co-produced with: ACS Division of Medicinal Chemistry, American Association of Pharmaceutical Scientists, and ACS Publications

Industry's Continuing Efforts to Diversify the Workforce



Date: Wednesday, August 4, 2021 @ 2-3pm ET

Speakers: Andre Argenton, Dow / Scott Collick, DuPont Mobility & Materials / Adwoa Baah-Dwomoh, W.L. Gore & Associates

Moderator: Rebekah Paul, American Chemical Society

[Register for Free!](#)

What You Will Learn:

- The variety of ways companies promote diversity, equity, inclusion, and respect
- What programs companies are using to drive change
- Opportunities for the next generation workforce within industry

Co-produced with: ACS External Affairs & Communications and ACS Industry Member Programs

Think Like a CEO What Can Business Acumen Do For You?



Date: Thursday, August 5, 2021 @ 2-3pm ET

Speaker: Patricia Simpson, Game Changing Etiquette and the University of Illinois at Urbana-Champaign

Moderator: Matt Grandbois, DuPont Electronics & Industrial

[Register for Free!](#)

What You Will Learn:

- Why is business acumen important for all employees
- What are the core elements of a business acumen
- How to develop or enhance your business acumen

Co-produced with: ACS Division of Professional Relations

www.acs.org/acswebinars

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ACS President
H.N. Cheng Presents:



4
Entrepreneurship
Series

Starting a Company

Intellectual Property




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Starting a Company: Intellectual Property



H.N. CHENG
2021 ACS President and Research Chemist,
US Department of Agriculture



JIM SKINNER
President & CEO, Terregena Inc. and Chair,
ACS Division of Small Chemical Businesses



KENNETH SIBLEY
Senior Patent Counsel,
Carbon Inc.

Presentation slides are available now! The edited recording will be made available as soon as possible.

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This ACS Webinar is co-produced with ACS Industry Member Programs, ACS President-Elect, ACS Board Committee on Corporation Associates, ACS Committee on Technician Affairs, the ACS Division of Small Chemical Businesses, and the ACS Division of Business Development and Management

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Chemistry Enterprise – Growth, Collaboration and Advocacy



- **Chemistry is a central science. A strong and growing global chemistry enterprise is good for the profession and its members**
- **Some possible actions:**
 - Innovation, application R&D
 - entrepreneurship, industrial engagement
 - Sustainability and New Frontiers
 - International collaboration
 - Collaboration among chemistry stakeholders
- **Need continued public and government support**

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Innovation and Entrepreneurship



Innovation is the engine of growth for any civilization and society

- Innovation and discovery are at the core of ACS through the efforts of its members
- The key is to translate these innovations and discoveries from bench to market
- This requires entrepreneurial and business skills not usually taught in grad schools

An innovation and entrepreneurship educational program is needed by ACS and its members

- Educate our members on the skills needed for entrepreneurship and business management
- Increase collaboration, networking/interactive relationships. Promote new enterprises
- Recruit and retain members who see innovation and management as integral to their professional goals and recognition
- Thanks are due to ACS Industrial Member Programs, ACS webinar team, SCHB, BMGT, and also Corporation Associates and CTA on this collaborative effort.

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Webinars for Entrepreneurship

<https://www.acs.org/content/acs/en/acs-webinars/collections/starting-company.html>



ACS
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2020 Webinar Recordings and 2021 Live Events



Where Do You Get Funding?

Featuring: H.N. Cheng, 2021 ACS President and Research Chemist, US Department of Agriculture / Jim Skinner, President & CEO, Terregina Inc. and Chair, ACS SCHB / Diane Grob Schmidt - 2015 ACS President

[View the Recording](#)

What You Will Learn:

- The many sources of funding and their impact on ownership
- The importance of milestone achievements for valuation purposes
- The criteria and terms that investors use to make investing decisions



Do You Need a Business Plan?

Featuring: H.N. Cheng, 2021 ACS President and Research Chemist, US Department of Agriculture / Jim Skinner, President & CEO, Terregina Inc. and Chair, ACS SCHB / Diane Grob Schmidt - 2015 ACS President

[View the Recording](#)

What You Will Learn:

- Why it is critically important to have detailed Business Plan
- What are the sections of a Business Plan
- What is the goal of the Business Plan



Sole Proprietorship to Incorporation

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Wed, July 21, 2021 @ 2-3pm ET

Featuring: Jim Vredonik, Corporate Attorney, Innovate Capital Law / Benji Jones, Corporate Attorney, Innovate Capital Law / H.N. Cheng, 2021 ACS President and Research Chemist, US Department of Agriculture / Jim Skinner, President & CEO, Terregina Inc. and Chair, ACS SCHB

What You Will Learn:

- How Founders Agreements and organization documents set the rules you'll live by for a long time
- Why allocating equity ownership to founders, employees, contractors and investors takes a lot of planning
- How tax issues play important roles in planning



Intellectual Property

[Register for Free](#)

Wed, July 28, 2021 @ 2-3pm ET

Featuring: Kenneth Sibley, Senior Patent Counsel, Carbon Inc. / H.N. Cheng, 2021 ACS President and Research Chemist, US Department of Agriculture / Jim Skinner, President & CEO, Terregina Inc. and Chair, ACS SCHB

What You Will Learn:

- The basics of intellectual property, how it must be protected and the importance of filing date
- What are the pros and cons of a patent filing or a provisional patent
- What are the various types of patents and what is Freedom to Operate



How to Organize Your New Firm

[Register for Free](#)

Wed, August 11, 2021 @ 2-3pm ET

Featuring: Jim Skinner, President & CEO, Terregina Inc. and Chair, ACS SCHB / H.N. Cheng, 2021 ACS President and Research Chemist, US Department of Agriculture / Diane Grob Schmidt, 2015 ACS President

What You Will Learn:

- How to organize your team during the early stages
- How to organize the structure of your company during the early stages
- How your team and organizational structure may evolve in the growth and maturity stages in order to address challenges and opportunities

This ACS Webinar Series is co-produced with ACS Industry Member Programs, ACS President, ACS Board Committee on Corporation Associates, ACS Committee on Technician Affairs, the ACS Division of Small Chemical Businesses, and the ACS Division of Business Development and Management.

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Carbon3D: February 2013 to March 2015




https://www.ted.com/talks/joseph_desimone_what_if_3d_printing_was_100x_faster



Science 2015, 347(6228), 1349-1352

18

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(12) United States Patent DeSimone et al.		(10) Patent No.: US 9,216,546 B2 (45) Date of Patent: *Dec. 22, 2015
(12) United States Patent DeSimone et al.		(10) Patent No.: US 9,211,678 B2 (45) Date of Patent: *Dec. 15, 2015
(12) United States Patent DeSimone et al.		(10) Patent No.: US 9,205,601 B2 (45) Date of Patent: *Dec. 8, 2015

(54) **CONTINUOUS LIQUID INTERPHASE PRINTING**

(71) Applicant: **Carbon3D, Inc.**, Redwood City, CA (US)

(72) Inventors: **Joseph M. DeSimone**, Los Gatos, CA (US); **Alexander Ermoshkin**, Chapel Hill, NC (US); **Nikita Ermoshkin**, Chapel Hill, NC (US); **Edward T. Samulski**, Chapel Hill, NC (US)

(73) Assignee: **Carbon3D, Inc.**, Redwood City, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.
This patent is subject to a terminal disclaimer.

(21) Appl. No.: **14/569,202**

(22) Filed: **Dec. 12, 2014**

(65) **Prior Publication Data**
US 2015/0097315 A1 Apr. 9, 2015

Related U.S. Application Data

(63) Continuation of application No. **PCT/US2014/015506**, filed on Feb. 10, 2014.

(60) Provisional application No. 61/919,903, filed on Dec. 23, 2013, provisional application No. 61/865,841, filed on Aug. 14, 2013, provisional application No. 61/763,746, filed on Feb. 12, 2013.

(58) **Field of Classification Search**
CPC B29C 2033/0005; B29C 33/56; B29C 33/58; B29C 33/62; B29C 35/08; B29C 41/02; B29C 67/0051; B29C 67/0062; B29C 67/0066; B29C 67/007; B29C 67/0085; B29C 67/0092

USPC 264/40.1, 338, 401, 497
See application file for complete search history.

(56) **References Cited**

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CN 203254661 U 10/2013
(Continued)

OTHER PUBLICATIONS

Atala et al. "Engineering Complex Tissues", *Science Translational Medicine*, Nov. 14, 2012, vol. 4, Issue 160, 11 Pages.
(Continued)

Primary Examiner — Leo B Tentoni
(74) *Attorney, Agent, or Firm* — Myers Bigel Sibley & Sajovec, P.A.

(57) **ABSTRACT**
A method of forming a three-dimensional object, comprises providing a carrier and an optically transparent member having a build surface, the carrier and the build surface defining a build region therebetween; filling the build region with a polymerizable liquid; irradiating the build region through the optically transparent member to form a solid polymer from



Carbon: March 2015 to July 2021

► An apparatus family:

M2



SMART PART WASHER



L1





▶ A Dual Cure Resin Family (shaped by light; properties imparted by heat)



EPX 82
Automotive



FPU 50
Enclosures



CE 221
Fluidics



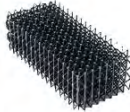
RPU 70
Nozzles



SIL 30
Padding



EPU 41
Energy return



EPU 40
Impact absorption



DPR 10
Models



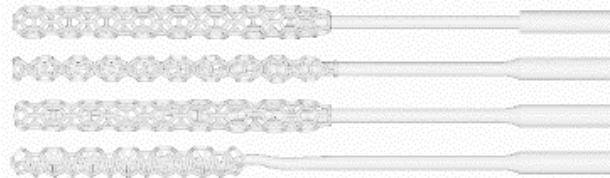
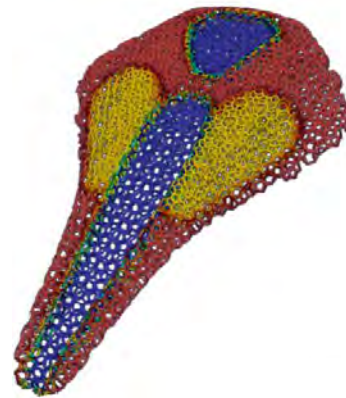
MPU 100
Medical

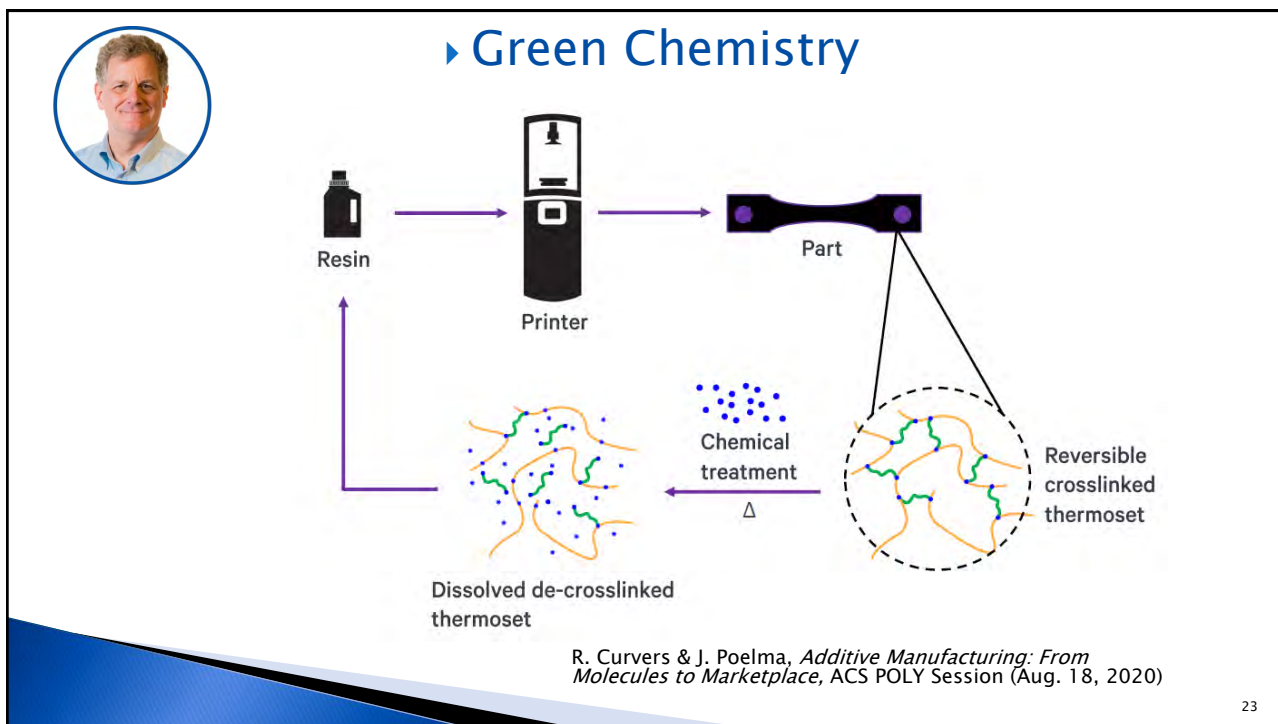


RPU 130
Consumer



▶ Lattice Design Software





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Audience Survey Question

ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT



All of the following are inventors on at least one US patent.

Who has the most?

- Chaim Weizmann
- Karl Ziegler
- Giulio Natta
- Wallace Carothers
- Jennifer Doudna



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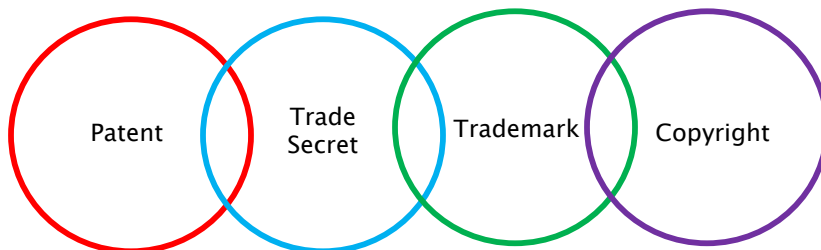
Intellectual Property, with an Emphasis on Patents

25

25



Intellectual Property



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Types of Patents & Applications

▶ “Precursor” Applications:

- Provisional applications
- Patent Cooperation Treaty (PCT) applications
- European Patent Office (EPO) applications

▶ Regular Applications:

- Utility applications for methods, apparatus, compounds, compositions;
- Including improvements;
- Sometimes also called “*national stage*” applications.

▶ Various Others:

- Design applications
- Plant patents
- Utility models (only available for apparatus; not available in US)

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▶ Various Others:

- Design applications
- Plant patents
- Utility models (only available for apparatus; not available in US)

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Patent Families

- ▶ **COUSINS:** US applications and foreign counterpart applications.

- ▶ **PROGENY:**
 - Common in the United States
 - Same text, different claims.
 - Typically linked in a series as one application is allowed and a progeny is then filed.
 - Sometimes called: **“Parent, grandparent, great-grandparent”** etc.
 - More technically called **continuation and divisional applications.**

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Best Practices for Implementing a Patent Program

(and, avoiding common traps and pitfalls)

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BEST PRACTICES

- ▶ I. DISTINGUISH PATENTABILITY FROM FREEDOM TO OPERATE (FTO).
- ▶ II. UNDERSTAND THE PATENT FILING TIMELINE.
- ▶ III. CREATE A PATENT COMMITTEE.

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I. Distinguish Patentability from Freedom to Operate (FTO).

- ▶ A patented invention can be blocked from commercialization by one or more earlier **“blocking”** or **“dominating”** patent(s).
- ▶ Should you search for blocking patents or not? If so, then how much and how often? Widely different opinions exist!
- ▶ Potential investors may ask, or may do their own searching and then ask.
- ▶ **No general rules**, so discuss early with your patent counsel and decide what is best for you.
- ▶ **“Landscape”** vs. **“FTO”** searches.

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Audience Survey Question

ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT



Which Nobel Prize recipient is also an inventor on dozens of patents?

- **Francis H. Arnold**, 2018, for directed evolution of enzymes
- **Thomas R. Cech**, 1989, with Sidney Altman, for the discovery of catalytic RNA
- **Glenn T. Seaborg**, 1951, with Edwin McMillan, for discoveries in the chemistry of the transuranium elements
- **Irving Langmuir**, 1932, for discoveries in surface chemistry
- **All the above**



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II. Understand the Patent Filing “Timeline.”

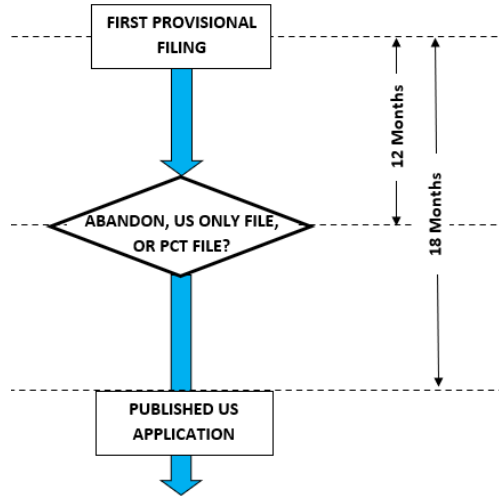
- ▶ **PROVISIONAL Applications:**
 - NOT created as a “placeholder” or low-cost application.
 - WERE created to give US applicants the same US patent term as ex-US applicants.
 - These have IMPORTANT implications!

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US-Only Filing Timeline

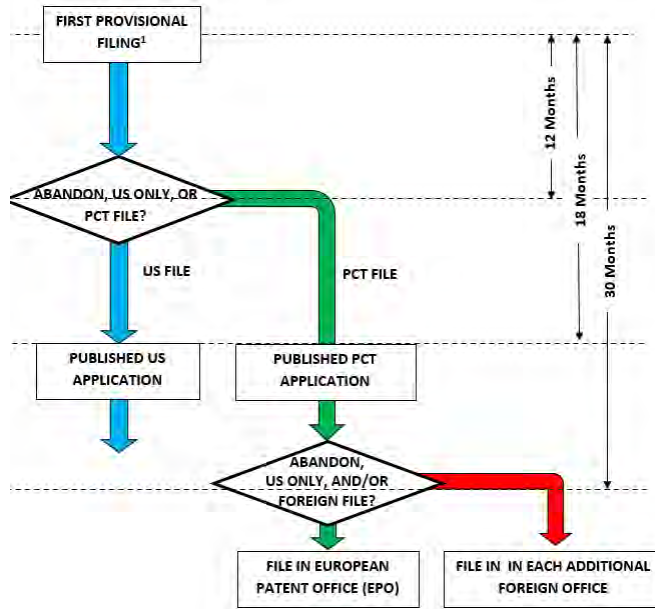


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PCT Filing Timeline V1.

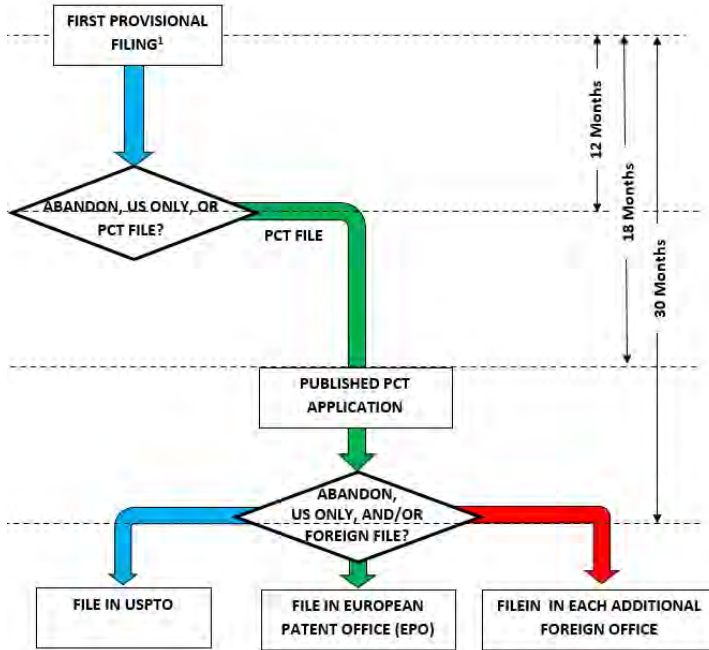


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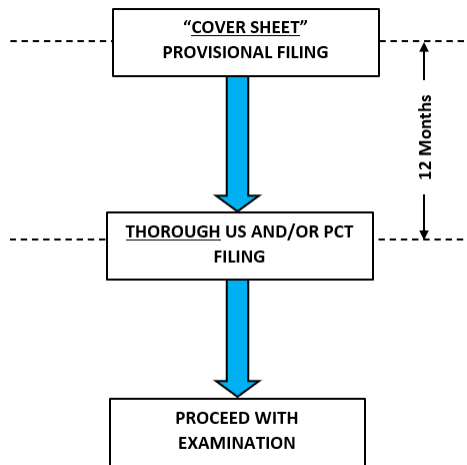
36



PCT Filing Timeline V2.

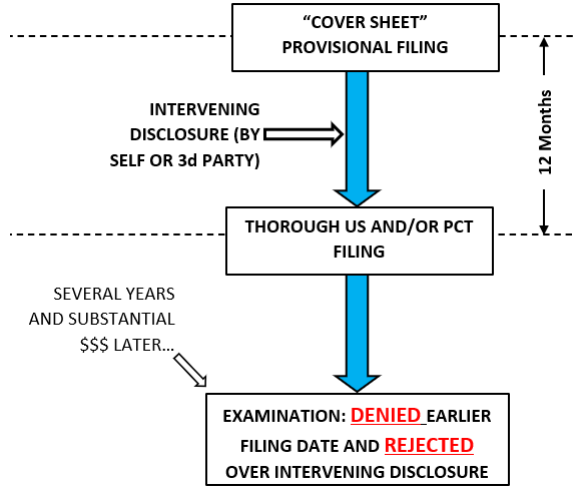


A Common Misconception

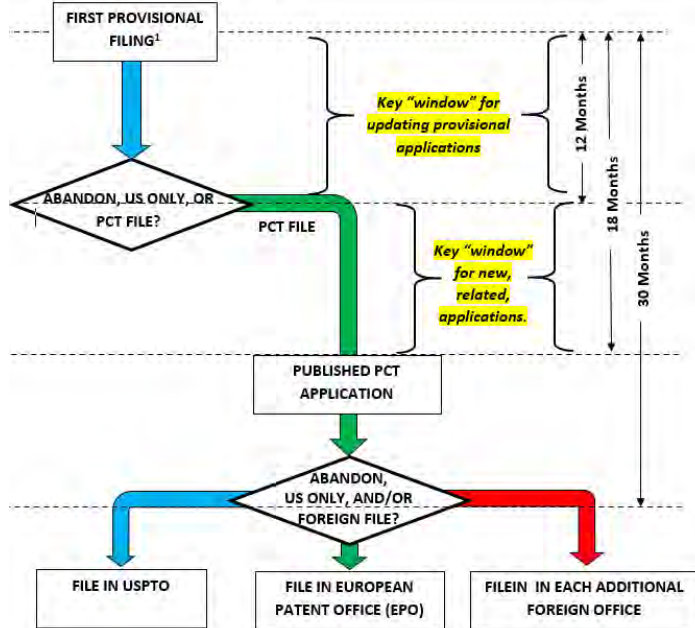




A Trap



PCT Filing Timeline, with Key Windows.





Key Decisions

- ▶ For the *windows*:
 - When should we update a provisional filing?
 - When should we start a new, related, filing?
- ▶ For the *branch points*:
 - Patent, or trade secret?
 - US only, or PCT file?
 - Following the PCT, where should we national stage (*i.e.*, foreign) file?

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III. Create a Patent Committee.

- ▶ Even a small start-up company can have one. And it should!
- ▶ Include distinct R&D, legal, business, and financial perspectives.
- ▶ Include senior management.
- ▶ Meet 4–6 times a year.

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BEST PRACTICES

- ▶ I. DISTINGUISH PATENTABILITY FROM FREEDOM TO OPERATE (FTO).
- ▶ II. UNDERSTAND THE PATENT FILING TIMELINE.
- ▶ III. CREATE A PATENT COMMITTEE.

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For More About Patents, See

- ▶ THE USPTO WEBSITE:
 - <https://www.uspto.gov/patents/basics>
- ▶ THE WIPO WEBSITE:
 - <https://www.wipo.int/portal/en/index.html>
 - (The World Intellectual Property Organization, or “WIPO,” runs the PCT)
- ▶ THE EPO WEBSITE:
 - <https://www.epo.org/index.html>

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For More about Carbon, See

- ▶ <https://www.carbon3d.com/technical-publications-and-public-presentations/>
- ▶ <https://www.carbon3d.com/patents/>

Carbon® is a 3D printing technology company helping businesses to develop better products and bring them to market in less time. Carbon is a venture-backed company headquartered in Redwood City, CA.

Carbon has customers in 17 countries and is continuing to expand globally.

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ACS SCHB Where all the elements come together for a successful chemical business



The **ACS Small Chemical Business** team is here to assist you in the formation, development, and growth of your small chemical businesses.

Please join us at **6pm ET today, July 28th** (3 hours after the broadcast) to discuss business topics.

Email pr@acs-schb.org to be invited to the virtual happy hour!



<https://acs-schb.org>

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Starting a Company: Intellectual Property



H.N. CHENG
2021 ACS President and Research Chemist,
US Department of Agriculture



JIM SKINNER
President & CEO, Terregena Inc. and Chair,
ACS Division of Small Chemical Businesses



KENNETH SIBLEY
Associate General Counsel, Patents
and IP, Carbon, Inc.

Presentation slides are available now! The edited recording will be made available as soon as possible.

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ACS President
H.N. Cheng Presents:



**Entrepreneurship
Series**



Starting a Company

Intellectual Property



FREE Webinar | TODAY at 2pm ET



ASK YOUR QUESTIONS AND MAKE YOUR COMMENTS IN THE QUESTIONS PANEL NOW!

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Starting a Company: Intellectual Property



H.N. CHENG
2021 ACS President and Research Chemist,
US Department of Agriculture



JIM SKINNER
President & CEO, Terregena Inc. and Chair,
ACS Division of Small Chemical Businesses



KENNETH SIBLEY
Associate General Counsel, Patents
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Targeted Delivery of **RNA-targeted Therapeutics**



Date: Thursday, July 29, 2021 @ 2-3:30pm ET
Speaker: Punit Seth, Vice President, Ionis Pharmaceuticals
Moderator: Charvi Nanavati, Ionis Pharmaceuticals

[Register for Free!](#)

What You Will Learn:

- What are the general principles for delivery of RNA-targeted oligonucleotide drugs.
- How local delivery occurs to tissues such as the lung and the CNS
- How receptor-mediated delivery to hepatocytes, pancreatic beta cells, skeletal muscle and heart tissues occur

Co-produced with: ACS Division of Medicinal Chemistry, American Association of Pharmaceutical Scientists, and ACS Publications

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[Register for Free!](#)

What You Will Learn:

- The variety of ways companies promote diversity, equity, inclusion, and respect
- What programs companies are using to drive change
- Opportunities for the next generation workforce within industry

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Moderator: Matt Grandbois, DuPont Electronics & Industrial

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What You Will Learn:

- Why is business acumen important for all employees
- What are the core elements of a business acumen
- How to develop or enhance your business acumen

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Targeted Delivery of RNA-targeted Therapeutics



Date: Thursday, July 29, 2021 @ 2-3:30pm ET

Speaker: Punit Seth, Vice President, Ionis Pharmaceuticals

Moderator: Charvi Nanavati, Ionis Pharmaceuticals

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What You Will Learn:

- What are the general principles for delivery of RNA-targeted oligonucleotide drugs
- How local delivery occurs to tissues such as the lung and the CNS
- How receptor-mediated delivery to hepatocytes, pancreatic beta cells, skeletal muscle and heart tissues occur

Co-produced with: ACS Division of Medicinal Chemistry, American Association of Pharmaceutical Scientists, and ACS Publications

Industry's Continuing Efforts to Diversify the Workforce



Date: Wednesday, August 4, 2021 @ 2-3pm ET

Speakers: Andre Argenton, Dow / Scott Collick, DuPont Mobility & Materials / Adwoa Baah-Dwomoh, W.L. Gore & Associates

Moderator: Rebekah Paul, American Chemical Society

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What You Will Learn:

- The variety of ways companies promote diversity, equity, inclusion, and respect
- What programs companies are using to drive change
- Opportunities for the next generation workforce within industry

Co-produced with: ACS External Affairs & Communications and ACS Industry Member Programs

Think Like a CEO What Can Business Acumen Do For You?



Date: Thursday, August 5, 2021 @ 2-3pm ET

Speaker: Patricia Simpson, Game Changing Etiquette and the University of Illinois at Urbana-Champaign

Moderator: Matt Grandbois, DuPont Electronics & Industrial

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