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# Law, Technology and Civic Entrepreneurship

SECTION 1

# Law and Technology

# Law and Technology

My research centers on the interrelationship between law and technology, both how the law is applied to new technology and the impact that technology has on the law and its practice.

Research in two main areas: intellectual property law and electronic discovery.

Other research subjects: legal ethics, legal technology, security and privacy.



# Intellectual Property Law

1. The extent to which copyright, patent, and trademark law protects websites, apps and GUIs. (invited, AIPLA Spring Meeting)
2. Legal (copyright, intellectual property law) and ethical issues related to social media. (including posters at CSCW and InWIC and presentation at Grace Hopper with Cori Faklaris)
3. Legal considerations for 3D printing. (invited, national webinar)
4. Through my national professional organization, I have advocated for Congress to modernize the U.S. Copyright Office, to implement a pilot project for mass digitization, to revise various provisions of the DMCA and to develop an alternative dispute process for small copyright infringement claims.



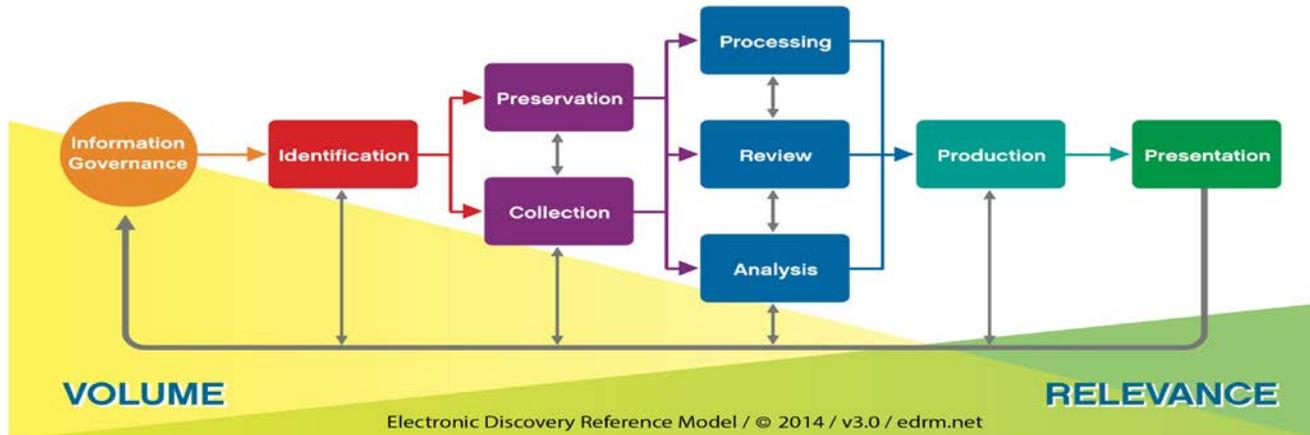
# Electronic Discovery

1. The emerging area of law known as electronic discovery (e-discovery) has been a particular focus of mine for the past decade.
2. E-discovery deals with how to identify, collect, preserve, analyze and produce digital evidence in all formats (email, documents, audio, video, social media) before and throughout litigation.
3. E-discovery sits perfectly at the intersection of law, technology and data science.
4. It is important for everyone to know about e-discovery because you never know when you will be asked to preserve and produce evidence that might be relevant in litigation.



# Electronic Discovery

## Electronic Discovery Reference Model



How evidence moves through an e-discovery process



# Electronic Discovery

1. Security, privacy and electronic discovery issues with wearable health devices. (presentation with Vishakha Kumari at HCI International 2017)
2. Ethical issues with electronic discovery. (invited presentation, Advanced E-Discovery Institute, Georgetown Law School)
3. Designing a predictive coding system for electronic discovery. (presentation with Dhiyva Soundarajan at HCI International 2017)
4. Articles in *The Federal Lawyer* and *The Computer & Internet Lawyer* on social media and e-discovery. (with Cori Faklaris)





## SECTION 2

# Civic Entrepreneurship



# Microfinance/Women's Empowerment

1. A passion of mine is microfinance/women's empowerment, inspired by the work of Muhammad Yunus and because of my experiences teaching an entrepreneurship course here at SolC every year since 2003.
2. Concept of civic entrepreneurship/social entrepreneurship.
3. I provided scholarships for five Service Learning Assistants, funded by the IUPUI Center for Service and Learning.
4. Created a website for the project in Mexico – in both Spanish and English.



# First Project: Calnali, Mexico, 2009-2015

1. Partner organizations: Rotary Club of Indianapolis, Rotary Club of Huehuetla (Mexico), Pro Mujer (international microfinance organization), IUPUI BiCCHC Signature Center, IUPUI Center for Service and Learning.
2. Small loans for women to start their own companies. Includes training in small business management, money management and empowerment. Obtained \$51,000 in grant funding. Typical loans are \$200-\$300 USD.
3. Uses the strategy of “communal banks” – for peer support and to build community.
4. Now incorporated into Pro Mujer’s regional efforts in the State of Hidalgo.



## Where is Calnali?



In the State of Hidalgo, NE of Mexico City. The capital is Pachuca, the site of UAEH and Pro Mujer's office in Mexico.

# Beautiful Vistas – But Many Challenges



## Village of Tula; Village of Atempa



## Scenes from Calnali



- Several Internet cafes, but no clean water
- “Under construction” = unintended consequences?
- 26.7% of men and 91.8% of women in Calnali are economically inactive, with little access to employment in the formal sector.

## Women Who Benefitted from the Loans





Communal Bank “The Doves” (Las Palomas) with their loan officer Matilde Hernandez Juárez



Angelina Fuentes Hernandez, hardware store owner, Communal Bank San Juan



Cecilia Portillo, Communal Bank *Los Rosales* (The Rose Bushes)



Mrs. Margarita Escudero  
from Communal Bank Las  
Margaritas de Calnali

With Rotarians from the  
Rotary Club of Huehuetla,  
State of Hidalgo, Mexico



# Language - Calnali

First language – Nahuatl (pronunciation: [\[ˈnaːwat͡ɬ\]](#) ) - Uto-Aztecan language family - Collectively they are spoken by an estimated 1.5 million Nahua people.

Nahuatl words you already know:

- Chocolate
- Avocado
- Chili
- Coyote
- Tomato



## Second Project: Sierra Leone, 2015--

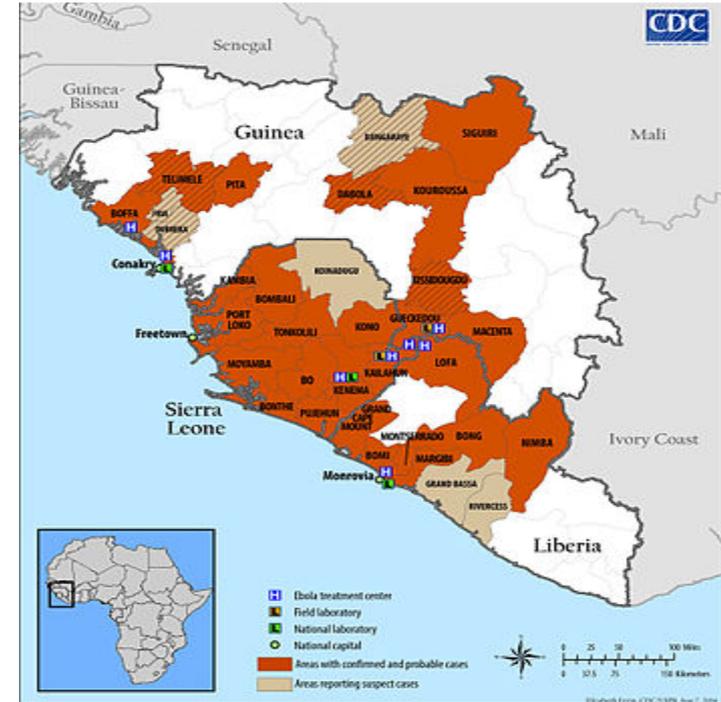
1. Partners are Rotary Club of Indianapolis, Rotary Club of Freetown (Sierra Leone), Right Sharing of World Resources (international microfinance organization)
2. First the civil war, then the ebola outbreak, means that people in Sierra Leone have really been struggling – and yet life must go on.
3. Small loans for women to start their own small companies. Includes training in small business management, money management and empowerment. The women's group there is responsible for providing approximately 10% of the money for each project.
4. Each project is approximately \$5,000.
5. Total redesign of Right Sharing of World Resources website (graduate student Shilpa Pachhapurkar) and advice on a social media marketing strategy. (graduate student Cori Faklaris)



# Where is Sierra Leone?



Ebola outbreak



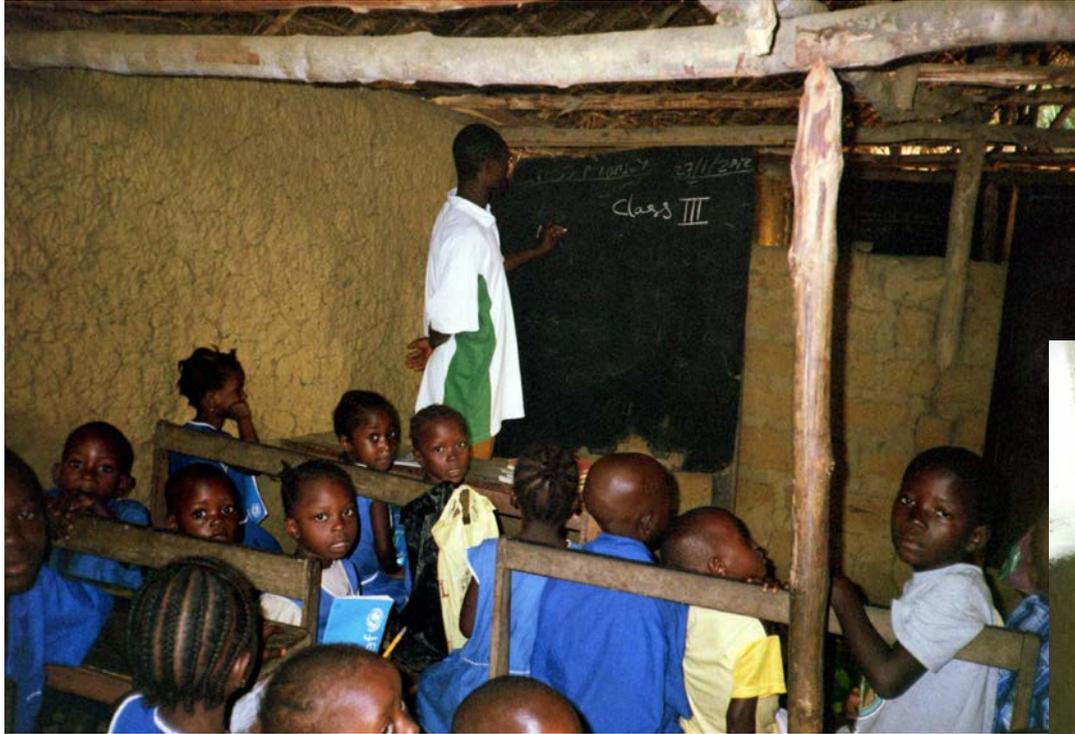
# Scenes from Graced Team Project



Bonthe District,  
Southern Province

30 poor rural  
women farmers  
aged 25-40

Photographs taken  
by Jackie Stillwell,  
General Secretary,  
RSWR



The local school

Extracting palm oil -- this is the business the women who planted cassava had to take up in order to repay their loans.





Typical house

Preparing a meal





Village houses



Washing clothes



Paying back their loans

# Current Project: Mayogba Rural Women Farmer's Association



Moyamba District

IGP	# of women	Loan per woman	Monthly income after expense	Repayment plus interest	Net monthly income
Cassava	4	SLL.500,000 (\$123)	SLL.325,000 (\$80)	SLL.85,000 (\$21)	SLL.240,000 (\$59)
Potatoes	2	SLL.600,000 (\$147)	SLL.385,000 (\$94)	SLL.102,000 (\$25)	SLL.283,000 (\$69)
Groundnuts	6	SLL.500,000 (\$123)	SLL.425,000 (\$104)	SLL.85,000 (\$21)	SLL.340,000 (\$83)
Corn	6	SLL.500,000 (\$123)	SLL.485,000 (\$119)	SLL.85,000 (\$21)	SLL.400,000 (\$98)
Rice	6	SLL.500,000 (\$123)	SLL.314,000 (\$77)	SLL.85,000 (\$21)	SLL.229,000 (\$56)
Vegetables	10	SLL.454,000 (\$111)	SLL.425,000 (\$104)	SLL.77,179 (\$19)	SLL.347,821 (\$85)
Goats	8	SLL.500,000 (\$123)	SLL.360,000 (\$88)	SLL.85,000 (\$21)	SLL.275,000 (\$67)

“Not all of us can do great things. But we can all do small things with great love.” ~  
Mother Teresa

“Never underestimate the power of a small group of committed people to change the world. In fact, it is the only thing that ever has.” ~ Margaret Mead

“Give a man a fish and he eats for a day. Teach a man to fish and he eats for a lifetime.” ~ Chinese Proverb



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