

The Innovation Lab

Saint Paul Public Library
LibTech • March 15, 2017

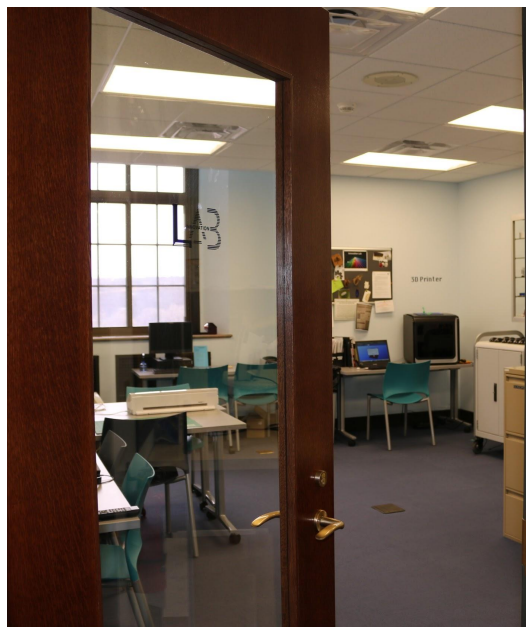
Xenia

Amanda

Andrea



The Tech Crew



We are an adult makerspace in Downtown Saint Paul funded by the Friends of the Saint Paul Public Library.



293 MEMBERS

82 PROGRAMS

42 APPOINTMENTS PER
MONTH

Equipment & Software

Workstations

Digitization



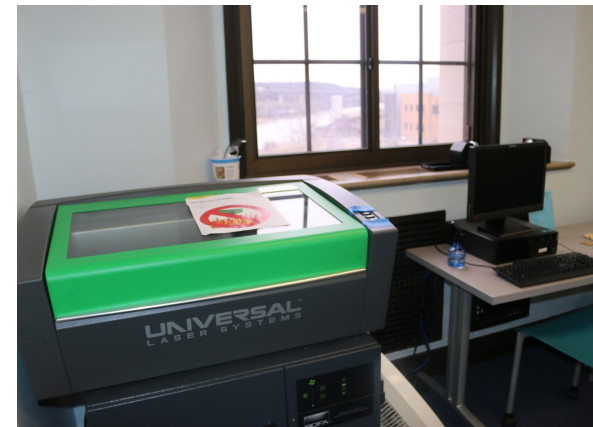
DVD/VCR recorder combo
Video Capture adapter
Roxio Easy VHS to DVD and
Cassette/LP to MP3 software
USB turntable
Blank CDs & DVDs for sale

Cutting



Silhouette Cameo 3 cutter
Cutting mat
Sketch pens
Vinyl, cardstock, transfer sheets

Laser



Universal VLS 3.50 50W laser
Fume exhaust filtration system
Engraving table
Cutting table
Rotary fixture
Supplies for sale

Workstations

3D Printing



Afinia H800 3D printer
ABS & PLA filament, various colors
1 Copper-infused PLA roll
Various tools

Tech Suite



16 Skype-enabled Thinkpads
1 Macbook
9 Adobe Creative Cloud licenses
20 Sony headphones
1 Canon EOS 70D DLSR camera

Sewing



1 Brother PC420 PRW
computerized sewing machine
4 Singer machines
Patterns, fabric and notions
Jewelry supplies

Workstations

Yarn Crafts



Crochet hooks
Knitting needles
Yarn various types & colors
Patterns

Recording Studio



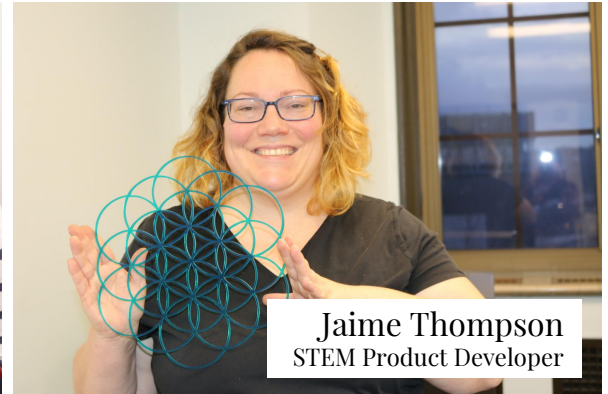
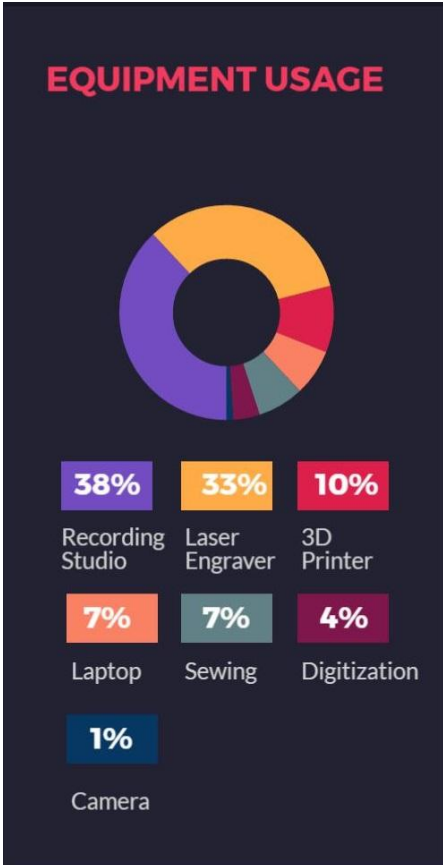
Editing suite w/isolation booth
iMac w/Garageband & ProTools 12
Yeti & AKG microphones
Studio headphones
Focusrite Scarlett audio interface
MDI keyboard
Moog Synthesizer

Classroom



Space for orientations,
workshops, online learning,
trainings & events
2 private study rooms

What are members using?

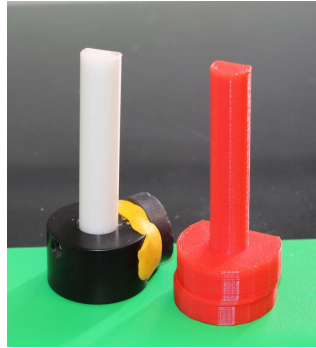
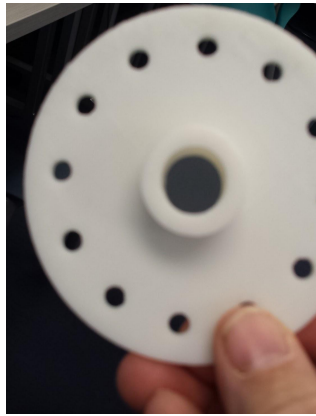


Avid ProTools 12.3



Universal VLS 3.5

3D Printing



3D printed projects. *From left to right:* Plain, white ABS hedgehogs, with acrylic painted smaller model; White ABS magnetic rotating disk for a camera; Black and white ABS chess pieces with laser cut and painted jigsaw chessboard; Laser focus tool and red ABS copy; Red ABS dinosaur painted silver; Custom-designed, green PLA blaster prop for Star Wars-themed costume.



Laser Engraving



Laser engraved and cut projects. *From left to right:* Signage on reclaimed wood; Basswood lampshade; Personalized wine glasses; Photograph on pumpkin; Painted wood and acrylic mobile; Engraved coasters on cork; Black, acrylic hydroponic lettuce-growing adapter.

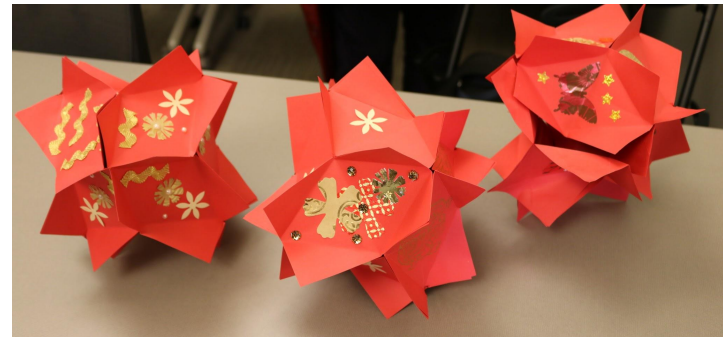
Sewing



Machine and hand-sewn projects. *From left to right:* Hand-sewn stuffed horse with felt and yarn; Canvas tote bag with lace and attachment; Tops and skirts from vintage patterns; Machine-sewn baby swaddle wrap; Blue, felt neck warmer; Black, lined spats; Hand-sewn ornaments.

Crafts

Yarn, Paper &
more

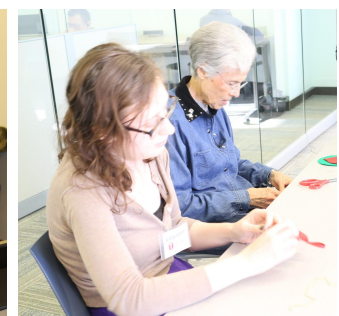
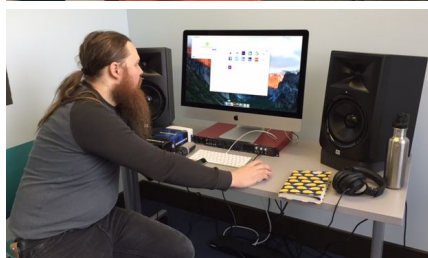


Crafts, various materials. *From left to right:* Shadow box made from cardstock cut on Silhouette cutter, framed, and illuminated with LED bulb; Crocheted and stuffed sea forms; Hand-made paper lanterns; Mask made from textured fabrics and paper; Mini top hat decorated with laser-cut felt cameo and other supplies;; Laser-cut card-stock and fabric ornaments.



Classes & Programs

Open to all



Maker activities *From left to right*: Crochet social; Eco-friendly card making; Mask and costume making; Machine sewing class, 3D Printing class; Paper lantern making; Hand sewing ornaments; ProTools class.

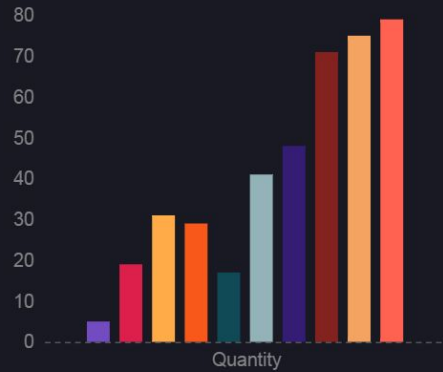


Top Programs

May 2016–Feb 2017

PROGRAM ATTENDANCE

May 2016 - February 2017

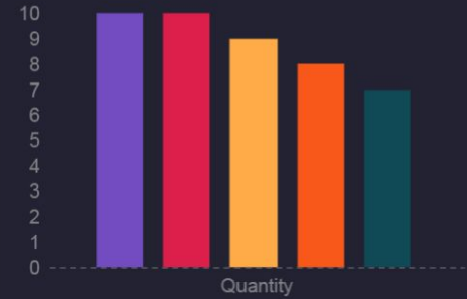


May Jun Jul Aug Sep Oct Nov Dec Jan Feb

PROGRAM POPULARITY

May 2016 - February 2017

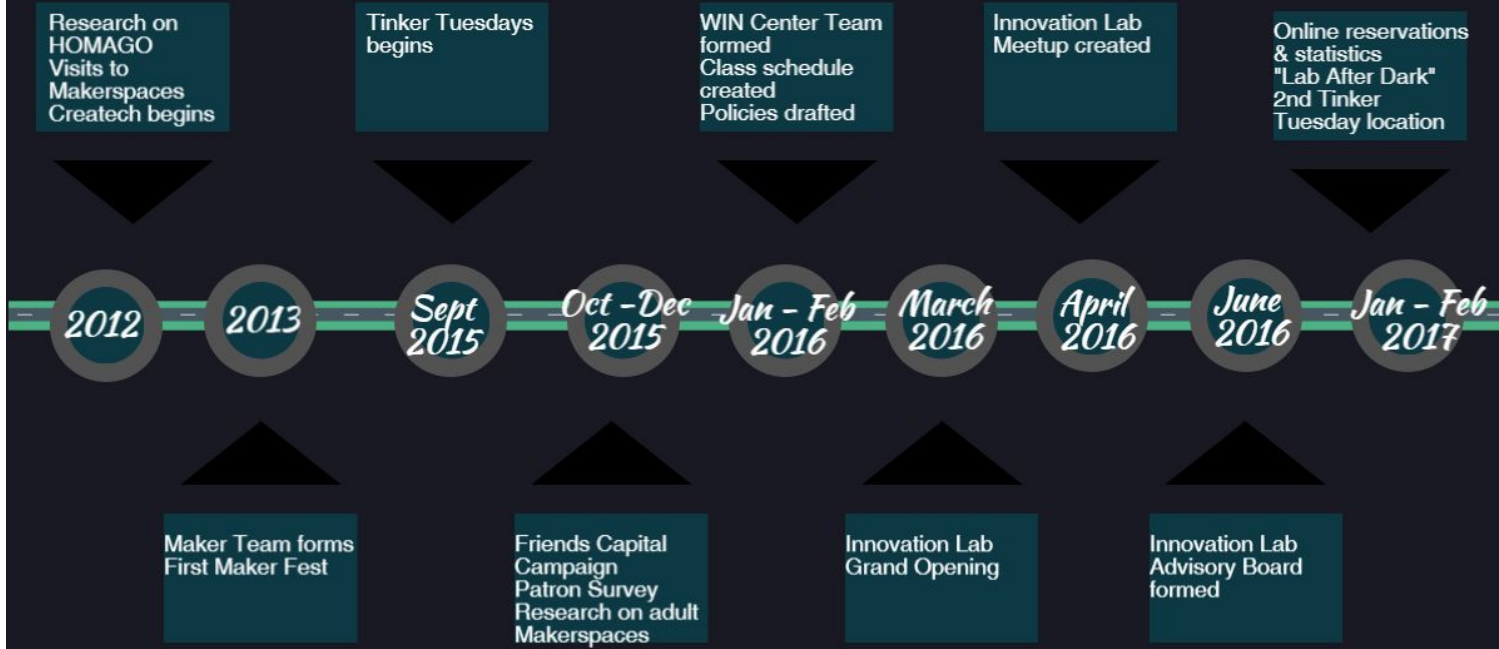
Average class attendance,
May 2016- Feb 2017



Adobe Music 3D Print Sewing Cards

How did we get
started?

Timeline of Maker Activities at SPPL



Where we started

Createch vs Lab

Homago

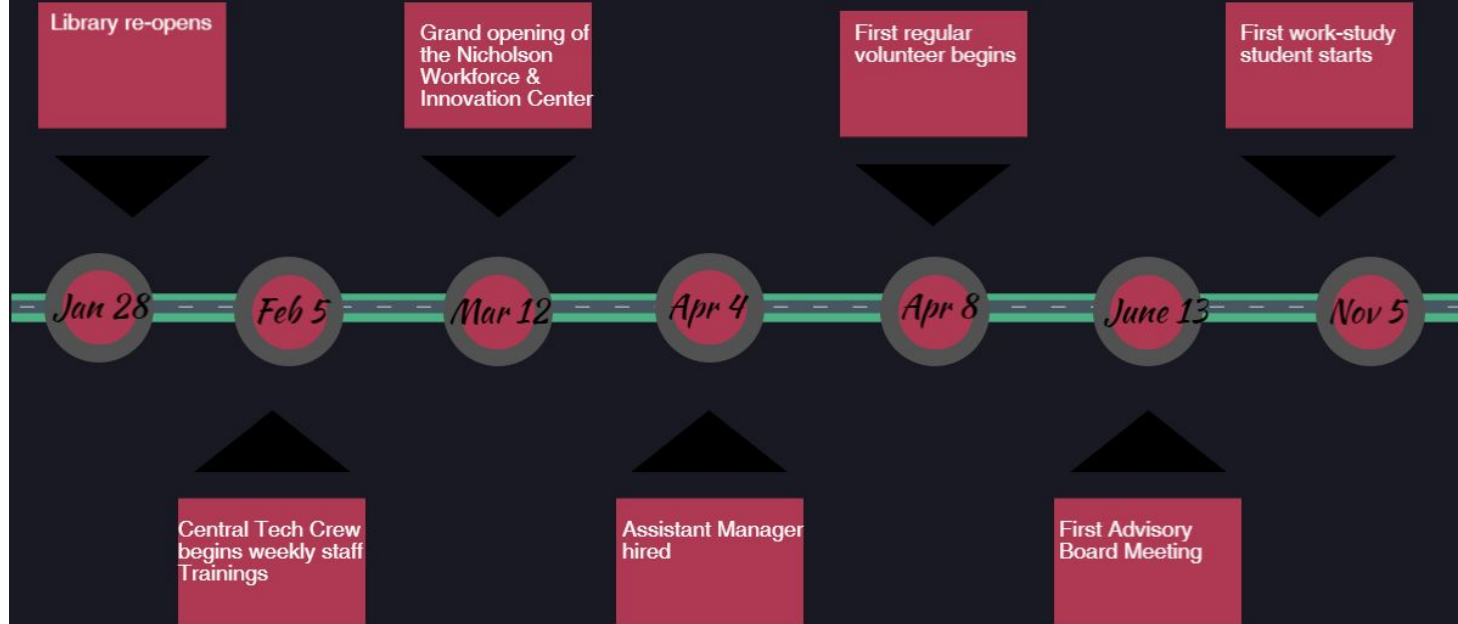


Structured Learning



Be specific!

Staffing Timeline 2016



How we've grown

The Team



George Latimer Central Library Tech Crew



Richa Goel

Star volunteer; Teaches laser, 3D printing, crochet, digitization, computer skills, works special events & more



Z Akhmetova

Sewing & crafting volunteer



Khun Myo

Work-study student



Aamino Hirmoge

Work-study student



Carolyn Soler

Sewing volunteer

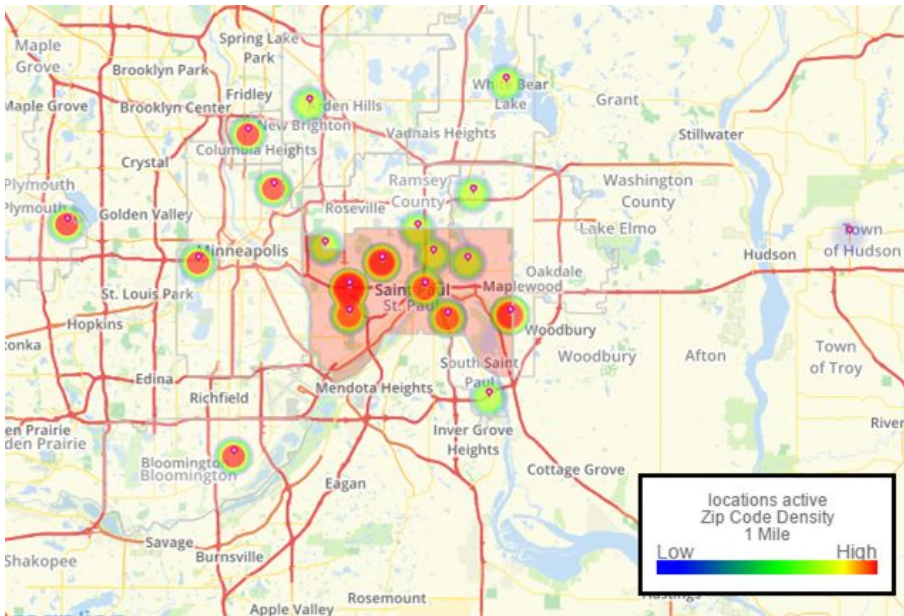
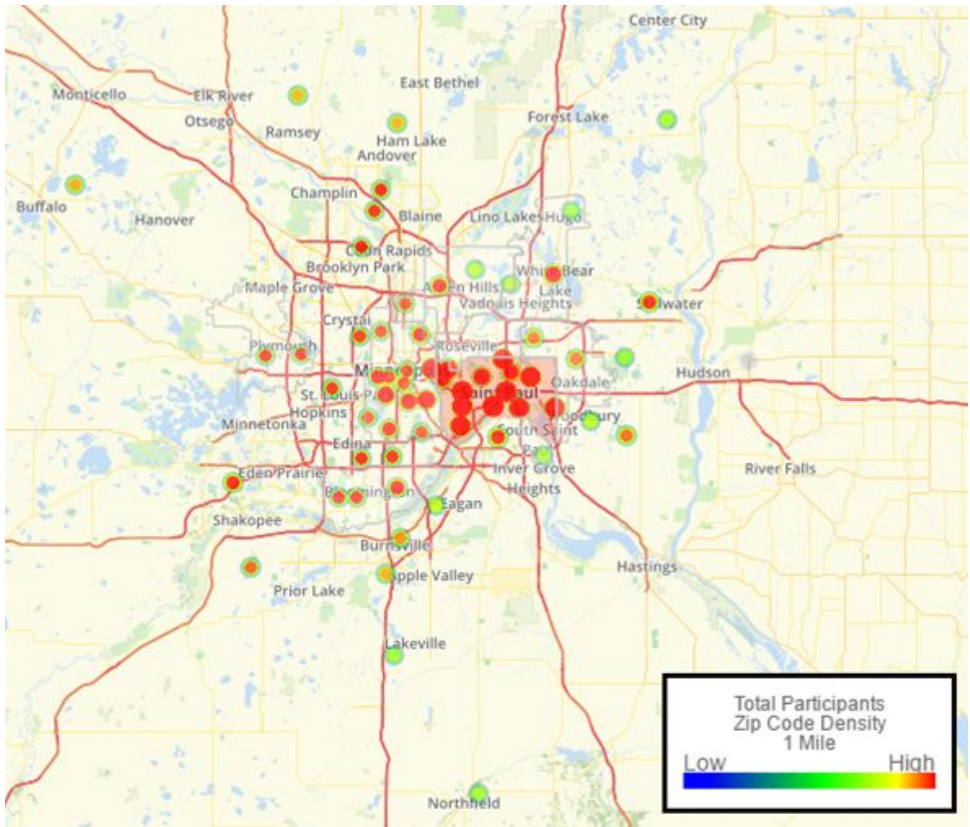


Lane Rapp

Social Media Volunteer

Who are we serving?

All members vs Active members (by zipcode)

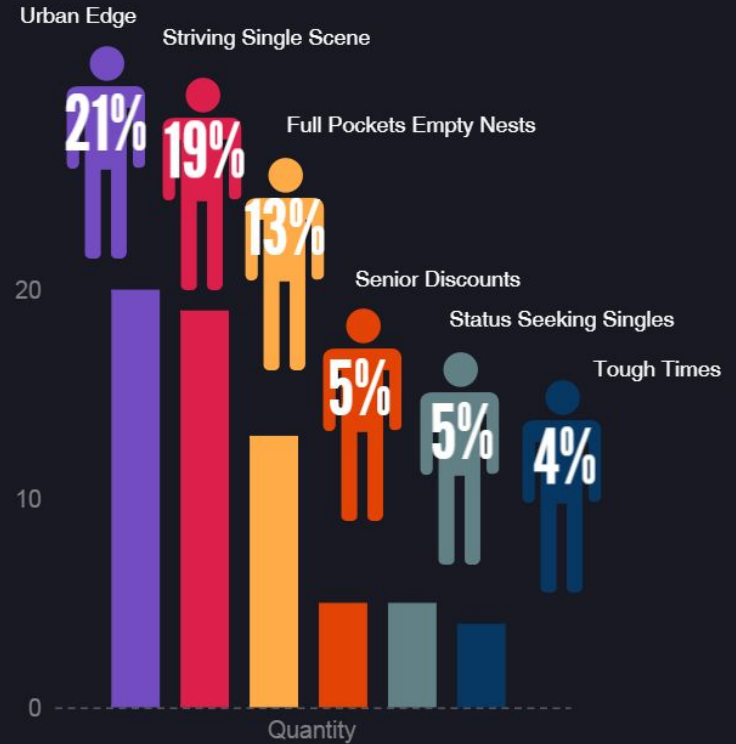


Market Research

Patron Profiles

TOP MOSAIC PROFILES

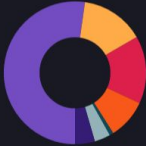
George Latimer Central Library



Population & Membership by Race

POPULATION BY RACE/ETHNICITY

Saint Paul as a whole, 2015



58%	16%	17%
White	Black	Asian
10%	1%	4%
Hispanic	American Indian	Other
5%		
Multiracial		

POPULATION BY RACE/ETHNICITY

George Latimer Central Library, 2015



78%	13%	4%
White	Black	Asian
5%	1%	1%
Hispanic	American Indian	Other
3%		
Multiracial		

INNOVATION LAB MEMBERS BY RACE/ETHNICITY

Total Members



71%	10%	7.5%
White	Black	Asian
2%	.5%	1%
Hispanic	American Indian	Other
6%	3%	
Unknown	Multiracial	

INNOVATION LAB MEMBERS BY RACE/ETHNICITY

Active Members Jan - Feb 2017



61%	16.5%	7%
White	Black	Asian
1.5%	1.5%	1.5%
Hispanic	American Indian	Other
8%	3%	
Unknown	Multiracial	

Membership by Gender & Age

INNOVATION LAB MEMBERS BY GENDER

Active Members Jan - Feb 2017



57 %

Male

38%

Female

5 %

Unknown

INNOVATION LAB MEMBERS BY AGE

Active Members Jan - Feb 2017



38%

18-30

34%

31-43

16%

45-56

7%

57-69

5%

70-82

Average Age = 45

Who uses the
Innovation Lab?



“Investigated & proven packaging solutions”



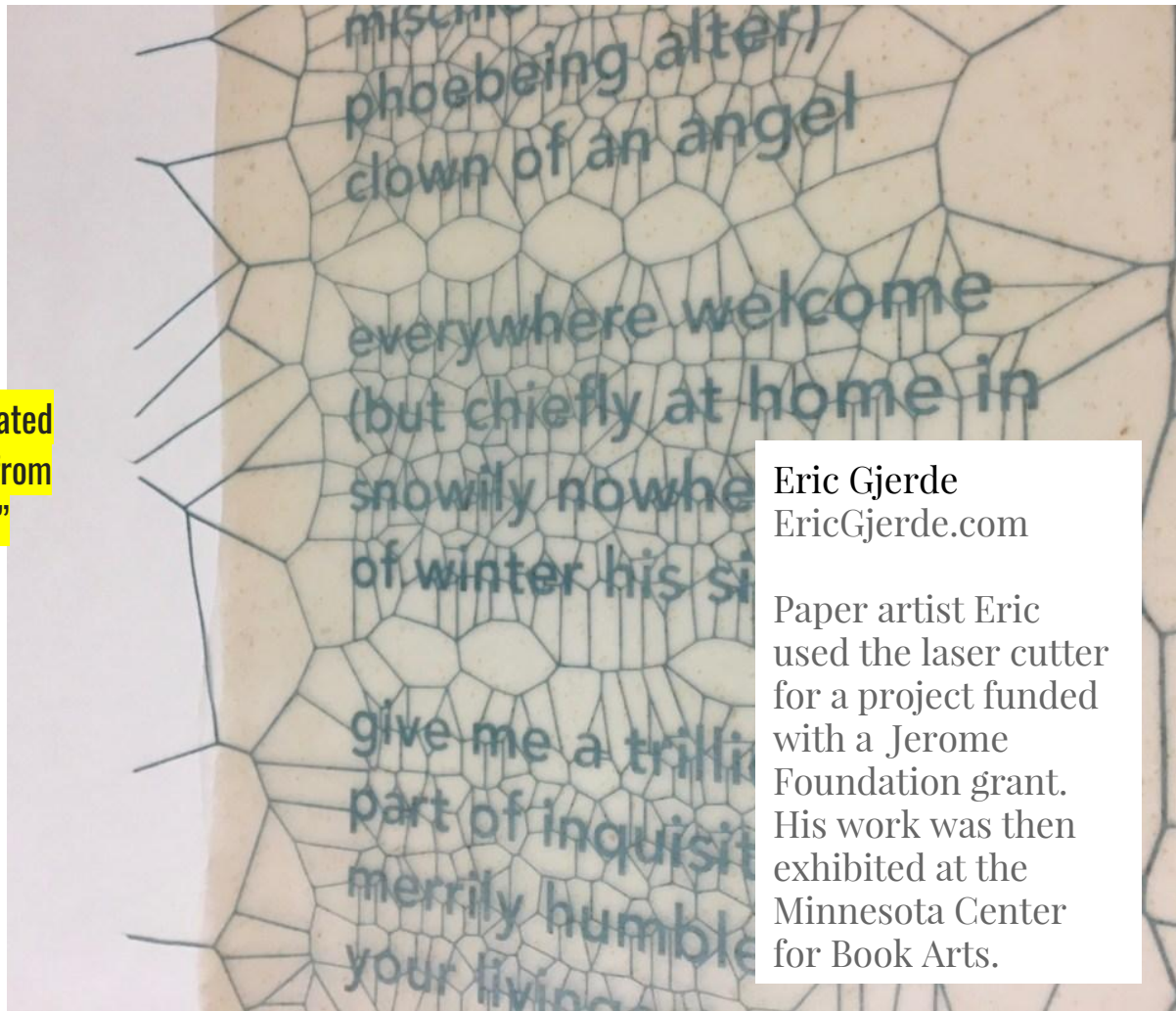
Rachel Kane
SureLockPack.com

Rachel uses the 3D printer to test designs for a startup packaging company. 3D printing at cost saves her hundreds of dollars per prototype.





“Specimens is the first of its kind: a book created with a new bio-paper medium made entirely from bacterial cellulose. Its pages were once alive.”



Eric Gjerde
EricGjerde.com

Paper artist Eric used the laser cutter for a project funded with a Jerome Foundation grant. His work was then exhibited at the Minnesota Center for Book Arts.

How we connect



Advisory Board

We encourage members to take ownership of the space and invite all to participate in the Lab Advisory Board.

Social Media

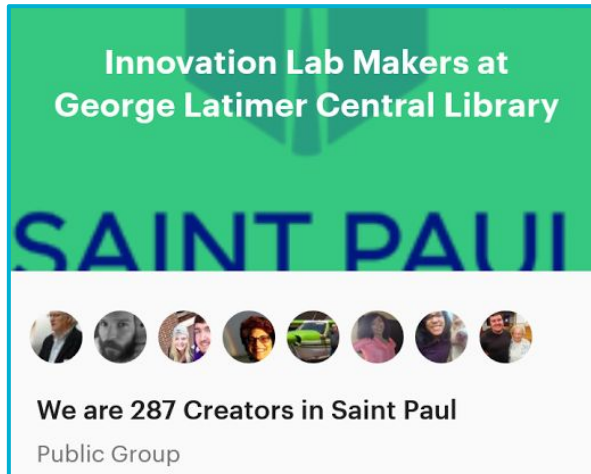
#madeitatSPPL



St. Paul Entrepreneurs and Creative Professionals

We are 223 entrepreneurs in Saint Paul
Public Group

This image shows a Facebook group cover for 'St. Paul Entrepreneurs and Creative Professionals'. The top half features a blue and green abstract background with a network of lines. Below the title, there is a row of nine circular profile pictures of group members. The text below the photos states 'We are 223 entrepreneurs in Saint Paul' and 'Public Group'.



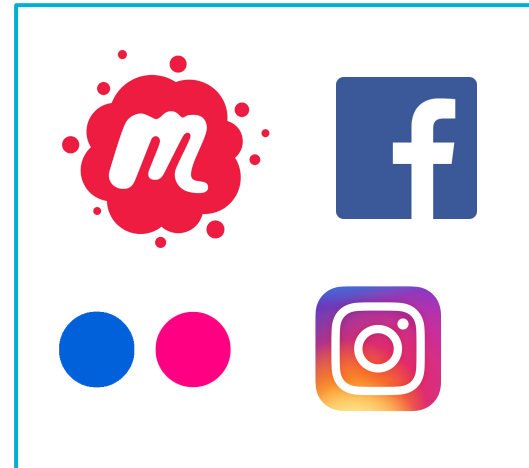
Innovation Lab Makers at George Latimer Central Library

SAINT PAUL

We are 287 Creators in Saint Paul
Public Group

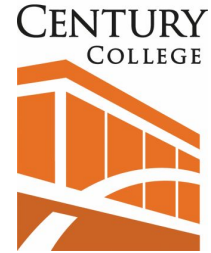
This image shows a Facebook group cover for 'Innovation Lab Makers at George Latimer Central Library'. The top half has a green background with a white arrow pointing down and the text 'SAINT PAUL' in large blue letters. Below the title, there is a row of nine circular profile pictures of group members. The text below the photos states 'We are 287 Creators in Saint Paul' and 'Public Group'.

We connect with members on Meetup, Facebook, Flickr & Instagram.



Partnerships

& Collaboration



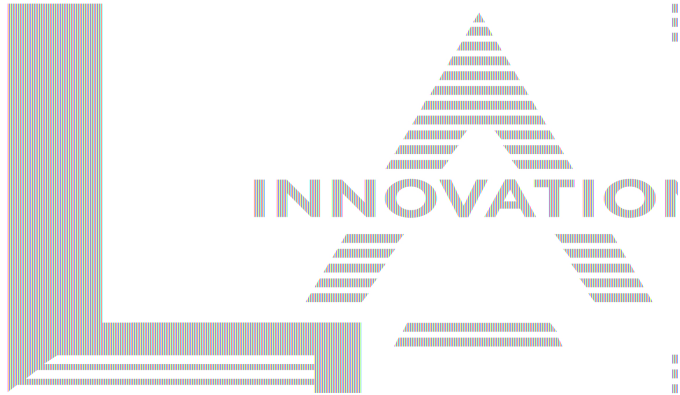
CATHOLIC CHARITIES
of St. Paul and Minneapolis





- Putting together a dedicated team
- Orientations/Fast-track/1-on-1
- Building relationships with members. We know who they are, their interests & work
- Wishlist and in-kind donations from members
- Open to re-evaluating and re-tooling

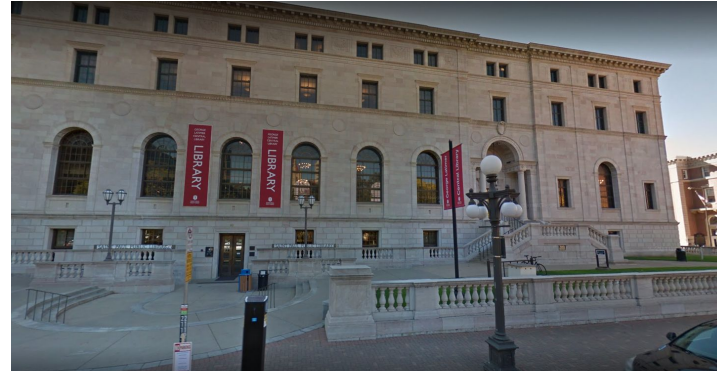
- Still working on connecting employers to skilled members
- Second 3D printer
- Extend to other branches
- Circulating maker kits
- Online orientation with quiz



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