Lane County Technology Advisory Committee
Thursday, April 20, 2017
1:00pm Lane ESD Room 5

MINUTES

Present:     Daniele McCallum (LESD), Jason Dodge (LESD), Michael Bieber (Fern Ridge 28J), Richard Reaksecker (Crow 66), Travis Burnside (LESD), Roger Morris (Eugene 4J), Nathan Crompton (Ambient IT, Marcola Blachly), Steve Traylor (Pleasant Hill 1), Michael Bateman (Fern Ridge 28j), David Nelson (Eugene 4J), Jesse Baber (South Lane 45J3)

Introductions

**Presentation: Pete Lauf, Lane ESD**
Career and Technical Education (CTE) program overview

Pete Lauf runs the demonstration classroom here at LESD.  He takes a small fleet of 3D printers and laser engravers and shares them out and about in schools when invited. He also brings hardware and software to school to enhance their experiences.  Gets the machines back after the students have them, handles repairs with non-existent repair budget.

Shared mini cooper logo printed on the 3D printer, broken prop from the ESD Drone. The Drone was grant funded at approximately $1250. Attendees inquired about 3D printing new prop - DJI sells replacement props for a lower cost than printing, so not a consideration.

Pete spoke regarding the checklist of what should be reviewed as new stuff comes into schools - mix of hardware, software, and culture in making decisions. He has spent three years as the outreach coordinator.  If he'd have had the checklist to start that would have been helpful *(link to checklist on here)*.  Operates from county-wide mandate; tries to make it user-friendly and usable for each district.

What's to come: Computer Science is a thing, getting CS into the classrooms is a priority. Superquest is a professional development opportunity for teachers held all over the state by OCSTA.  The are hosting one at Lane ESD Aug 2-4.  LBCC is hosting Oregon Computer Science workshops occurring on May 18th.

Pete gets emails from staff in districts asking for the items in the demonstration classroom, such as 3D printers.  He does his best to keep them self-sufficient, but does get called for support. Drone is on hiatus for a while with the FAA decisions.  Pete could be checked out for drone piloting.  Made mention of taking drone pictures of stream cleanup project at Marcola High. If there were mapping projects he could do this. FAA says educator doesn't need a license now.

The CTE program is funded through Perkins at the federal level. To qualify for CTE there are a lot of requirements, a Program of Study (POS) application and teacher endorsement required. There is one Computer Science POS in Lane county at 4J.  There is a Computer Science program of study and new curriculum offered in classrooms. CS160, getting started in high school, to get college credit for these courses. College Now certifications are now easier with the new changes.  C-A-L is using this and has some credit, not yet the CS160, but maybe next year. *(link to LCC Syllabus)* CS is not currently a requirement for a diploma, but if CS is properly oriented it could take place of a third year math course.

Jason inquired if districts use a checklist for new devices.  CAL responded yes;  Pleasant Hill would like to use it.   Richard mentioned staff buying things and not having storage for them - for example, microscopes but no space.  South Lane policy for tech purchases is that you need to check with tech first - gets about a 60% compliance rate.  Perkins has them sign off first, which is nice.

**Presentation: Erin Maloney, Heidi Larwick**
Connected Lane County and Lane Stem

Elevate Lane County, School to Work. *(Link to doc)*

Tech externs (teachers) number ten currently, working towards the CTE POS. (?)  Student interns are shorter in duration.  Teachers spend 200 hrs, students more like 20-30. Students will be with one company, teachers could be with up to three different companies. Students are not paid, teachers are.

ESD and LCC want to offer a CS160 class over the course of two weeks in the summer.  Many hoping for '18 roll out. Want to deliver through Moodle LMS.

Connected Lane County(CLC): original intent is to increase graduation rates. K-12 leadership is 4 superintendents, United Way, Epic, U of O president, LCC, Early Learning Alliance. http://connectedlanecounty.org/

Lane STEM has been running since last March. www.lanestem.org   Goal is to increase excitement around STEM, increase educator capacity. Looking to build a tech platform to help increase access to internships and job shadows, where the industry also has access. Platform in California exists that might help with this, on the horizon. Want to start to develop Badges for kids, possibly using "badgr" product. The four superintendents on the CLC board are interested in incorporating this into schools as well. Badges are provided by open source software, can create your own. Standards are written to help ensure they have good documentation and accountability behind badges.

**New Items**

Travis: brief presentation regarding spam filtering upgrades and better efficiency
This month:
Just under a million email messages processed this month to date
58% of e-mail volume is spam or malicious, blocked.
Average latency of 2-3 seconds to deliver

- But it's the last twenty phishing e-mails that get through

- Doing internal testing of pre-filter for spam and phishing
- Analyzes e-mail before hitting local Barracuda appliance

- Local appliance uses analysis rules combined periodic updates similar to antivirus, catches most spam/phishing, but not the very newest.
- Increase in phishing coming from hijacked legitimate e-mail accounts - no purely automated filtering can catch this.
- CPL can analyze a much larger body of email in real-time, identified phishing e-mails can be blocked instantly with no need to wait for signature updates to be delivered.
- Link rewriting feature - passes some link clicks through Barracuda service.  If link is later determined to be phishing/fraudulent, user will hit block page.  Similar to service provided by web filter, but an additional layer.

Suggestions/comments from attendees:

- Consider listing Barracuda appliance as lowest-ranked MX record, accept e-mail in case of CPL failure, would soft bounce all e-mail to deter spam deliveries
- 4J has Barracuda installed, but not using it yet. Currently using Sophos.
- Ambient runs the CPL and has for three years, it went down for half a day.

Jason: upcoming fiber training, online courseware prerequisite. Also, Tech Junction is May 3 at the Eugene Hilton: http://techjunctionevents.com/events/wvy17/

**Round table**

LESD Surveys: Google form of what you are buying - please fill it out, and we'll share the results.  LCTAC topics and offered professional development opportunities survey is coming out as well.  We talked about it last month, built it but haven't sent it yet.

**Recurring Items**

Service Incidents — A review of LESD service interruptions since last meeting.

**Professional Development - CBT Nuggets Usage**

Email went out for CBT Nuggets:
*Determine if any of these courses fit into your upcoming professional development plan.*
*Send an email to me at* cokesson@lesd.k12.or.us *no later than next* **Friday April 21st** *with the following:*

Discussions on the value of the CBT voucher offering, how to increase usage? Or make the offering more relevant to our needs. Richard suggested CBT Nuggets access for students - can it come from the ESD, will talk to LaneSTEM about that. Would it be OK for having CBT every other year? Will talk to CBT about the options, every other year seems like it might be the best fit.

**E-Rate**

Quick recap of any news this month
o Deadline to file Form 471 to select services/products is May 11

**Topic for Next Month:**

MDM - email out for presenters.

**Next planned LCTAC meeting at Lane ESD, Thursday, May 18th, 2017**

## New Tech in Education Decision Check List

A: "Hey! I just got a grant for ___ to get ___ for my ___ ! Isn't that awesome?!"

B: "Yes. That is awesome. Have you considered the following issues?"

1. What type of hardware are you purchasing?
2. What type of software are you purchasing?
3. Who will maintain the hardware?
4. Who maintain the software?
5. When will you speak with your building/district IT staff about your New Stuff?
   a. HINT: Answer = ASAP.
6. How does the New Stuff interact with your classroom's/building's/district's/Community's culture?
7. What Building, District, Local, County, State, Federal policy issues will you need to address in brings this New Stuff into your classroom?
8. How will this New Stuff help you meet the needs of students?
9. How will this New Stuff help you meet your outcomes/lesson objectives/benchmarks, etc?
10. How much time, money and energy will be required for you to be competent in using the New Stuff to educate your students?
11. After you have reasonably addressed 1-10, can you sincere say "Yes" to the following question:

   "This will make class better for my students."

Peter Lauf
Career Technical Education Outreach Coordinator: Lane ESD
Demonstration Classroom Coordinator
plauf@lesd.k12.or.us
541.461.8223