

BCTEA District Reps Meeting agenda 2016

Date: October 20th, 2016

Time: 12:30pm to 5pm

Place: Super 8 Hotel, conference room, 1655 Westgate Rd, Kelowna.

Rational: Each School district is asked to provide a district rep person to attend the annual Technology Education district reps meeting to learn the most current information concerning Technology Education, and to provide input to the BCTEA executive from their district.

Agenda:

- 12:30 Working lunch and Introductions
- 1:00 New curriculum update, ADST 10 - 12. Nigel Reedman, Zale Darnel.
- 1:20 Ministry of Education update, ADST, Skills Exploratory, course codes, etc. Patience Cox.
- 1:45 ITA, Industry Training Authority, update on youth initiatives, such as funding for skills exploratory and in-depth trade sampler courses, SSA and ACE IT. Jason Leber.
- 2:15 Break
- 2:20 Learning from accidents & near misses? Roger Bortignon.
- 2:35 Construction Association's new pilot program to give industry recognized credential to high school students for taking Technology Education classes and work experience. Jordan Perrault.
- 2:50 Canadian Welding Association update on initiatives. Trent Conrad.
- 3:05 Break
- 3:15 BCTEA web site tour. Steve Claassen
- 3:30 BCIT and UBC Teacher Education programs. Roger Bortignon,
- 3:45 District reps reporting out and general discussions
- 4:45 Draw prizes
- 5:00 Adjournment

Attendance

Last name	First Name	Notes
Barranti	Bryan	SD #60 Peace River North
Barisoff	Ken	SD #10 Arrow Lakes
Tivy	Brian	SD# 37 Delta
Karr	Michael	SD #78 Fraser Cascade
Reedman	Nigel	SD #39 Vancouver/Presenter
Darnel	Zale	SD #36/Presenter
Claassen	Steve	SD #71/Executive
Grey	Randy	SD #71/Executive
Ouellet	Luc	SD #69/Executive
Lim	Martin	SD #36/Executive
Purves	Brad	SD #36/Executive
Burroughs	Devin	SD #67/Executive
Harmon	Ryan	SD #42/Executive
Hurd	Dan	SD #23/Central Okanagan
Roest	Mike	SD #43 Coquitlam
Strothotte	Andy	SD #42 Maple Ridge-Pitt Meadows
Rimaldi	Courtenay	SD #75 Mission
McIvir	Gage	SD35 Langley
Bortignon	Roger	BCIT TTED program
Meville	Shawn	SD27 Caribou/Chilcotin
Reid	Mark	Ministry of Ed, ADST curriculum
Friesen	Mike	UBC student Rep
Proctor	Saul	SD#61
Conrad	Trent	Canadian Welding association
Perrault	Jordan	BC construction association
Cox	Patience	Ministry of Education
Bloomfield	Brandon	BCIT TTED program
Jordan Sanchez	Jordan	BCIT TTED program
Magee	Theresa	UBC Faculty advisor
Cox	James	SD68 Nanaimo

Fehst	Jeremy	SD58
Langley	Ivor	SD53
Elliott	Heather	SD33 Chilliwack
Cecchi	Steve	SD33 Chilliwack
Shenck	Vicki	SD48 Squamish
Richards	Keenan	SD20 Kootenay-Columbia
Brown	Doug	SD52 (Prince Rupert)
Walker	Josh	SD 74
Baugh	David	SD #51
Eagles	John	SD #59
Lo	Victor	SD /45
Tujik	Peter	SD 83

12:30 Oct 20th District Reps Meeting Opening

Lunch and a meet and greet

1:00 ASDT Writers

- Mark Reid, Nigel Reedman and Zale Darnel

Key Subject: Changes to the Curriculum

10-12 draft curriculum are now visible on the draft website

K-9 is now live on the ministry website

Review of the basic makeup of the Curriculum Areas

- Define Big Idea of the ADST Curriculum:
 - Our main focus throughout the course and what we are focusing on

- Curricular Competencies:

- What students will be able to do

- Core Competences: Shapes located at the top of the page

- Communication, thinking, Personal and Social

- 10-12 - Where does it fit in?
- Students will have to self-reflection on their work

- Content:

- The meat and potatoes of what the students need to learn

Courses now have new names:

- Example: Carpentry and Joinery = Woodwork

A,B,C tags have been removed

- Example: ~~Woodwork 12-B~~

New courses have also been added:

- Example: Coding for Manufacturing = CNC, Laser, Drones and more

What will new curriculum look like:

- Inquiry Based
- Students will create things connected to their own passions
- New skills in k-5 design thinking
- 6-7 new skills in cycle on innovation
- More documenting and shearing learning
- Focus on specialization 10-12

Feedback for the new curriculum:

- Feedback was sorted and insured it was meaningful. There was very little feedback that was related to TechEd and some feedback didn't offer any constructive criticism

Board Authorized Courses:

- Still an option but is remodeled where the board authorized courses will no longer have to be 80 to 90% different than existing ministry courses

1:20 Ministry of Education update, ADST, Skills Exploratory, Course Codes

Patience Cox

New name of Ministry program around TechEd is called Custom Programs

Idea behind custom programs: Look at programs that are different: Not English or Science.....

Custom Programs included:

- Skills Exploration 10-12
- Work Experience 12 A B
- Secondary School Apprenticeship
- Workforce Training Certificate <-- In development ex food safe, whims, etc
- ACE-IT
- Trades Sampler

Technology Strategy: Education

Pillar: Talent

- ADST Curriculum
- Every student will have access to coding by grade 9
- Support student opportunities in coding in and out of schools (example: Hour of Code)
- New K-12 curriculum in math, science and careers
- Promote creative thinking throughout all curriculum
- More work experience and dual credit in tech sector

Pillar: Market

- Complete Next Generation Network implementation

Timeline Grade 6-8

2016

- Jan: Tech Summit coding
- Jun: \$6 million for coding curriculum
- Jun: RFP and Contract
 - Lighthouse labs, kids code Jeunesse

- Sep: District Letters
- Nov: Teacher training begins

2017

- Teacher Training Continues

2018

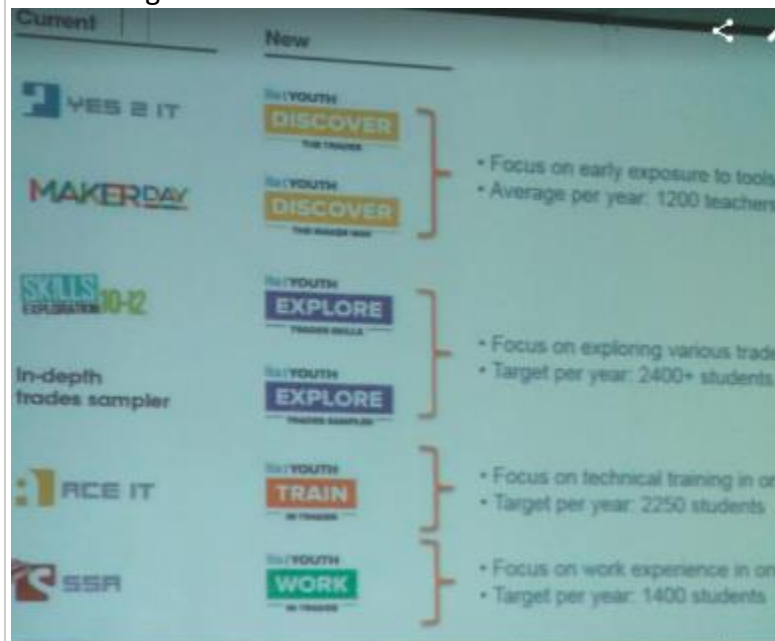
- Teacher training concludes
- Mandatory coding begins

Contact 778-678-2709 or Patience.Cox@gov.bc.ca

ITA, Industry Training Authority, update on youth initiatives, such as funding for skills exploratory and in-depth trade sampler courses, SSA and ACE IT

Randy Grey

Rebranding:



Skills Exploration 10-12:

- \$100 per kid enrolled (funding only available once) Funding goes to the School District but is intended to go into the connected classroom

Makerday:

- \$4000 per district per day up to two days
- Rules have changed and there is no need to attend a Makerday event to host one

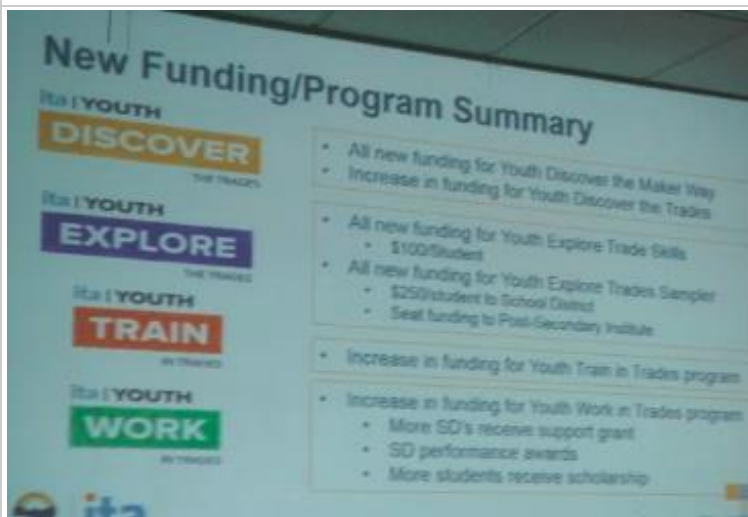
Yes2it:

- \$4000 grant available to host a yes2it event
- 2 per year per district

Grade structure of the new rebranded programs:



the goal is to have 5475 students entering trades every year as of 2018



Learning from Accidents & Near Misses?

Roger BCIT

Suggesting an anonymous share of accidents for the province for shop teachers to use to as a way to refine or change practices.

Suggesting an alert style similar to the WCB Hazard Alert

1993 HAZARD ALERT

WORKERS' COMPENSATION BOARD OF BC POSTER # Hazard Alert 83-04

Rotating shafts and loose material — a deadly mix!

A machinist was seriously injured while polishing a stock surface with an emery cloth. He was wearing gloves and using a loose, unsupported strip of emery cloth to do the polishing. Without warning the emery cloth wrapped around the shaft, dragging the machinist's left glove-hand into the nip point. He suffered the loss of three fingers and multiple wrist fractures.

SAFE WORK PRACTICE

CORRECTIVE ACTION:

1. When using an emery cloth or any other polishing device around rotating shafts, you must ensure that the cloth is supported by the proper tool.
2. Do not wear gloves, loose clothing or other loose articles (i.e. jewellery) when working around rotating shafts.
3. Use proper tools when polishing or servicing rotating equipment.

Sharing online? Facebook? List serves?

Construction Association's new pilot program to give industry recognized credential to high school students for taking Technology Education classes and work experience.

Jordan Perrault

Project Shop Class

Charitable arm of 5 trades associations

Looking to upgrade shop classes in the province:

- Most donations are connected to the donors region so money has not been evenly distributed

Construction Ready:

- Increase the capacity of people entering the workforce by bridging the gap between young people and industry before students leave high school

- 1 Increase awareness about construction careers and opportunities.
- 2 Increasing a student's ability to get work ready by connecting to employers.
- 3 Increase a student's ability to demonstrate their readiness.

Displayed the app they have developed to help student prep for a trade. The idea is that employers would see the completed app as a part of the hiring process

**Canadian Welding Association update on initiatives
Conrad**

Nonprofit division of CWB

Initiatives

- Welding helmets handed out (2800 across Canada) 2015-16
- Leather Jackets 3000 units 2016-17
- \$450000 given away in funding in 2016
- @275000 in post and secondary awards (\$2500 per student)
- Secondary School Teacher Training
- Post-Secondary Equipment Funding
- Welding promotion
- Women and Aboriginal groups
- Summer Camps

Seaspan is a major supporter and funds \$100000 per year over 3 years

CWD has developed curriculum for post-secondary however it has been made free to secondary schools

core.cwbinsitute.org/system/files/units/35/presentations/instst11handandpowertools.pdf

- Applying for access through your district

**BCTEA communications update – Website, Facebook, Eview, Magazine,
Database of teachers**

- review of the Facebook and BCTEA website

- Showed the backend of the list serve and the access to all of the teachers in BC
- Displayed the Web App to search the spreadsheet in a refined way.

BCIT and UBC Teacher Education programs

Roger Bortignon

- This is the 56th year at BCIT
- 1 cohort per year 42 students, 9 women, 29 avr age
- More Automotive time being adding in 2017
- Skills exploratory being added in 2017

UBC

Terisa Magie

- 23 Students in UBC 5 have two teachable subjects
- 13 week practicum 10 in school and 3 weeks in field (teaching outside of schools)
- Field trips and design activity challenges have been added to address ADST curriculum
- Having students complete school tours

District reps reporting out and general discussions

Brian SD60 in need of a teacher, 30 kids per class

Ken Barisoff SD10 400 in the district, 1 toc, Receiving decent funding (CNC, Saw Stop, etc) Class size 26-29 Jr and 10 Sr

Brian SD37 No organized LSA but email communication is happening, Class size up to 30. Shops over all are not too bad but some are run down, Tech Teachers do not service our machines. Not sure who is teaching ADST k-7 but are offering a pilot work bench and seeing where that goes. Makerspaces are happening but not staffed well.

SD 78 Machael Small district, 3 shop teachers, supportive admin and working with TRU and their welding trailer as well as U of V for other trades options, Class size Jr 7-9 about 28 and Sr 18

SD 22 Kevin 13 teachers (2 careers), 2 job openings in coming years, forestry program running in Lumby as a full year course with skill exploration curriculum. Not alot of funding and increasing class sizes. District is growing.

SD39 Nigel LSA is new within the last year. Meetings are once a month. Shop class size is a battle some are 24 and some are 38 at a peak (now 30). 18 Schools. Seismic upgrading is a main

concern since some upgrades have overlooked the teachers
SD71 Randy all teachers teach 8 out of 8 to solve a negative budget. 4/4 is challenging to shop teachers due to maintenance issues. Classes are 24-30, budgets are tight, monthly LSA. Classes are shrinking, launching Enter, Enter2, IMaker,
SD69 Luc 6 teachers, One school is trades based while one is exploratory, multi grade classes, funding is an issue, there is a need to upgrade,
sd23 Devin 9 teachers, 1 middle school closes eliminating a job, class sizes at 24ish, not much funding
sd36 Brad class size 24, building 20th high school and planning the 21st. LSA meets 4 times a year, High schools are taking curriculum to the k-7
Sd42 Matthew? LSA is meeting; enrollment is growing and not enough teachers to fill jobs. Un certified teachers are teaching Jr classes, most classes are 24 but some are large, Repairs are done by a district millwright, Some funding came in last year and has places some equipment in the shops. Makercarts have been introduced but not much guidance
sd75 one high and 2 middles, School is over cap and was built in 1952, No budget provided, last year they received \$20000, classes are capped at 26 but numbers have exceeded. using an app called Schooligy, maintenance has not maintained machines
sd35 not much of a LSA, High retirement this year and vacancies are expected, Budget issues-car show is used for funding, 30 kids per class,
SD27 Shawn Large district geographically, 7 teachers, Class size is reduced compared to other classes, they do a "building buddy" with gr5s and gr12s, Yes2It is ran and rotated through the district. ACEit is at Williams Lake. Student numbers are up. Maintenance will fix what they can and will get someone in to fix it if they can't. Newer shops in WL
UBC Rep Practicum staring late October,
Sd61 Saul Auto and metal have been combined into the same space. One teacher is teaching 8 subjects in one class. Maintenance is fairly quick but machinery is older, looking for a teacher come Jan
BCIT Sec Year working with new curriculum, students have a wide background.
BCIT First Jordon 22 students, lots of red seals, 6 females (one red seal), working on the basics, challenging design concepts,
Sd68 Closed a 600 student school last year and are reopening a 200 one. 1/3 are retired or under a letter of permission 10 teachers, Size Jr 28-29, Sr 22-24, Older equipment, Small maintenance department, teachers repair their own tools,
sd58 Jeremy 3 teachers size 12 - 33 in classes, energetic admin with maker and robotics, Hard time getting ACEit and SSAs going
SD53 3 high schools 4 teachers almost closed one high school but kept it open. All classes are up in size. 19 in electronics, everyone teachers 8/8, flexible time table, no maintenance, no budget, Careers program is very strong, Class sizes are small 16-18 with jr classes up a bit
SD33 Steve 3 high schools 5 Middle, high enrolment, classes are full but some are lower, Some

classes in other schools are at 30. 6 years of LSA, LSA is helped by district collaboration time. Grades are 7-9 and are moving to 6-8. Maintenance department does repairs but it takes a while. Wide variety of classes offered. District is growing.

SD48 Vikki always had a cap of 24 but now have been pushed up to 30. All k-6 have makerspaces and robotics (some teachers are not buying in), older schools but some have newer equipment. \$50000 a year since 2012 for tool replacement. Maintenance department will not touch equipment but district keeps paying for mill wrights without billing the classroom. Shortage of teachers, Hard time keeping auto teachers some are letter of permission. Teachers are freely moved around. Digital LSA

Sd20 5 teachers, class max 30 not including peer helpers, 5 student auto class, small shops, little budget, New saw mill from industry, Maker is a math ran thing, large turn over, no district millwright, carpenter fixes some.

SD52 Doug 3 teachers, large class sizes 30+ with peer helpers, budgets went from \$2000 to \$1600, \$41000 influx from project shop class, EA using tools is causing issues, Sell shed and tiny houses to create a budget, Job opening next year.

SD74 2 teachers Class size 6, In a portable being used as a shop, Applied to the district and band for tool funding, some tools are BCIT hand me downs, there are two vacant shops with no one to fill them.

Sd52 David community is growing, class size 30, maintenance is good but there is not a millwright, budgets are small but they have good community support.

Sd59 John Tumbler Ridge does not have a teacher and other towns are fighting to find people. Funding is an issue, Project shop class supported district, Does not have a LSA, job opening are coming, class size 9 in one class but most have 33-36 are the start of the year that level out lower and have a lot of skipping bring down the numbers, tools are old.

sd45 Vic 6 teachers class cap 24, no budget but told to spend, lots of international students,

sd83 Peter, declining enrollment, programs have declined, Strong ACEit but they are petering out, Classes are close to 30, small schools have numbers of 12-13, multi grade classes, Teachers teach other subjects, constantly up grading, millwrights are subcontracted for repairs,

Survey of Class size

Question asked: Should we start asking for classes of 24 or follow the Best Practices Guide of 20

Answer: Majority voted 24 -Comment: we will never get 20

Counter: Ask for 20 and get 24, Colleges have 16 student who are adults, ACEit have 16 students and large salaries, Spaces do not allow for that may kids when teaching skills at a high level, We are not modeling what trades are compared to industry,

Others: 7-8s are ok to be larger but Sr classes need to be smaller, Industry should not supply funding unless class sizes are brought down. Near misses are more likely to happen in a larger

class. What classes should have these limited numbers? Drafting? Wood? the number of identified kids are raising,