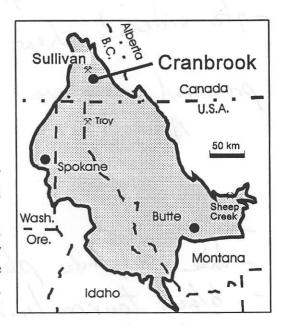
REVISED PROGRAM

METALLOGENY OF THE BELT-PURCELL BASIN: SOUTHERN B.C. AND NORTHERN U.S. ROCKIES WORKSHOP

> Inn of the South 803 Cranbrook St. Cranbrook, B.C.

This workshop reports on the results of multi-disciplinary geoscience projects to investigate the geology, mineral deposits and metallogeny of the northern Belt-Purcell Basin. The workshop is a unique opportunity for mineral explorationists, government geologists and university researchers to combine their efforts in advancing the understanding of the bedrock geology, surficial geology, geochemistry, geophysics and mineral deposits.



ORGANIZERS

Workshop co-ordinators:

Registration

Derek Brown, Trygve Hoy, David Lageson, Doug Anderson

Doug Anderson, Linda Hitchen, Valerie Smolik, East Kootenay

Chamber of Mines

Technical programs

Poster session/core shack

Field Trips

Fund-raising

Advertising

Office assistance

Derek Brown, Trygve Hoy Pat Stinson, Derek Brown

Derek Brown, Trygve Hoy, Doug Anderson

Paul Wilton, Rick Walker

Derek Brown, Dave Lefebure, Brian Grant, Dave Lageson

Mike Fournier, Cathi Bigelow, John Armitage

FIELD TRIP LEADERS

Trygve Hoy, Craig Leitch, Bob Turner, Marcia Knapp, Norris Del Bel Belluz, Don Winston, Doug Anderson, Paul Ransom, Derek Brown, Pat Stinson, John Balla

WORKSHOP SPONSORS

(as of September 28, 1994)

- B.C. Geological Survey Branch
- · Bighorn Helicopters, Cranbrook
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- Cominco Ltd., Cranbrook
- · Deakin Equipment, Vancouver
- · Discovery Consultants, Vernon
- East Kootenay Chamber of Mines, Cranbrook
- Fiorentino Brothers Contracting Ltd., Cranbrook
- · Gwen Resources Ltd., Kelowna
- Inco Exploration and Technical Services Ltd., Vancouver
- J.R.T. Communications (GPS consultants), Fernie
- Neville Crosby, Vancouver

Many thanks for their generous support to the workshop!

- 4.6% le 1/9 / 2.235/ton A - gte-siderate shew with Magre Sill proximal nessive sulphides dostal As , 56 , Ps Ros - lute sulphide plus - Sn, rhodochrosite - black tournalinite in beds - 13ht brown tourne linde it beit mineralized thoyie dy her ven retracts at more competent Sulphides - brecciated gtz cemented by pp - aspy - aspy associated with qtz - late py-calate - early brukeres thave sentele margins -later Feehlorite with mineralization ghe-carbonate garque - mheralize from post-dyke ? relationshop to Kootenay King

SUNDAY, OCTOBER 2, 1994: Inn of the South, Ball Room

Region	al Geology: [Chairs Derek Brown and Dave Lageson]	
8:45	Welcoming remarks	Hon. Anne Edwards (Minister of Energy, Mines and Petroleum Resources)
9:00	Introduction to the Workshop	Derek Brown (BCGS) and Dave Lageson (TRGS)
9:15	Stratigraphic overview	Don Winston (University of Montana)
9:45	Three dimensional crustal structure of the Purcell anticlinorium in the Cordillera of southwestern Canada	Fred Cook (University of Calgary)
10:15	Coffee break	
10:45	Thrust rotation model for the Belt-Purcell Basin	Jim Sears (University of Montana)
Metall	ogeny and Sullivan Mine and Corridor: [Chair Doug Anderso	ml
11:05	Regional metallogeny Purcell Supergroup	Trygve Hoy (BCGS)
11:30	The Sullivan - North Star Corridor: Regional scale alteration, fragmental rocks & mineralization associated with the Sullivan strataform Pb-Zn deposit, southeast British Columbia	Bob Turner, Craig Leitch (GSC), Trygve Hoy (BCGS)
11:50	Fluid chemistry and wallrock alteration. Sullivan Sedex Zn-Pb deposit	Craig Leitch (GSC)
12:10	Sullivan sub-basin	Paul Ransom (Cominco)
12:30	Lunch provided in Ball Room + poster session + rock displays	s in Club Room
Miner	al Deposits I: [Chair Jim Sears]	
1:30	Rift-related base and precious metal deposits of the central Belt terrane: the relationship between sill intrusion, sedimentation, tectonics and mineralization in the lower Belt Supergroup	Steve Buckley (Flathead Tribes) Jim Sears (University of Montana)
2:00	Geology of the Rock Creek Cu-Ag district. Sanders and Lincoln Counties. Montana	John Balla (Asarco) Denise Saunders (Noranda Minerals)
2:30	Olympic Dam in Idaho? Clues from Precambrian Plate Reconstructions	Gerry Ross (GSC-ISPG)
3:00	Coffee Break	
Miner	al deposit "SNAP SHOTS" I: [Chair Dave Pighin]	
3:30	Styles of mineralization within the Aldridge Formation	Doug Anderson (Cominco)
4:00	Fors	Dave Pighin (Consolidated Ramrod), Jim Britton (BCGS)
4:30 5:00	Vine St. Joe	Trygve Hoy. Dave Pighin Trygve Hoy. Dave Pighin
5:30	Dinner (individuals responsibility)	seems let the
8:00	CLUB ROOM: Poster session, core shack and cash bar	

Stratubound Condust Sullivas Stemwinder Fors star Do dge Moraray Glory (USA) Sullivan France Pors massive sulphide leas -diss, po -some bedding + base onetals extending 100% of m's from massive sulphide lens Dodge - storta controlled po, gol, sphal in altered curbonate horren 1/2% an over 1/6 1/2 Bover touronationic tragmental in Middle Attanique -laterally extensive, sight marker control -tournalinites and sournabnite Rougmental Stem wonder J-Pb, Zálers (150, vrot 3.18, Pb, 1668 Z th 2mt of sulphides -sulphide-madris breezes Venis Une, St Engene, Kellog-Dumtrell vein system in Sullivin Cover Low Canan, Star bistitie rocks, spoted with sphalerite, a 5% havenerelated mineralization -galera -sphalerite rich loyer with (cross-at) with - star has 1-23 over a number of prefres

MONDAY, OCTOBER 3, 1994: Inn of the South, Ball Room

	Southea 8:30	st B.C. Overview Session: [Chair Dave Lefebure] Cranbrook District Office	Andrew Whale (MEMPR)
	8:45	Exploration highlights of southeast British Columbia	Paul Wilton (MEMPR)
	9:00	New geoscience products	Dave Lefebure (BCGS)
	9:20	Catchment basin analysis of RGS data	Steve Sibbick & Wayne Jackaman (BCGS)
	9:45	Coffee break Rob Kell	
	Minera	Deposits II: [Chair Ian Lange]	
	10:30	The Cocur d'Alene type deposits: An analogue to turbidite-hosted vein-type gold deposits	Ian Lange and Robert Kell (University of Montana)
	10:50	Montana Sapphire Deposits cancelled	David Baker —
	11:10	Origin and geologic controls on a Ag-Pb-Zn deposit in the Wallace Formation: SEDEX or Coeur d'Alene vein origin for the Gold Hunter deposit. Coeur d'Alene district, Idaho	Terry Devoe (Hecla Mining) Jed Thomas (Sage Resources)
	11:30	Copper and platium group element mineralization in mafic dikes of the Revais Creek Mining District. Flathead Indian Reservation. MT.	Dan Lauer (University of Montana)
	D		
	12:00	Lunch Break (individuals responsibility) + poster session + rock	k displays
\	1:40	Gas bubble and expansion crack origin of "molar tooth" calcite structures in Proterozoic Belt Spergroup, western Montana	G. Furniss, J.F. Rittel, Don Winston (University of Montana)
		7780A 24 27 37	
		I Deposit "SNAP SHOTS" II: [Chair Rick Walker]	- 1101 LLL
	2:00	Iron Range	Pat Stinson (BCGS), Derek Brown
	2:30	Wilds Creek (Leg) Pb-Zn-Ba deposit	Derek Brown, Peter Klewchuk
	3:00	Coffee Break	
	3:30	Alkalic epithermal gold in the Flathead area	Rob Cameron (Fox Geological)
	4:00	Diamond potential of southeastern B.C.	Rick Walker (Dynamic Exploration)
	4:30	Marysville magnesite deposit	Kirk Hancock (BCGS)
	SUMM	ARY:	
	5:00	Summary remarks and discussion	
		A 85 - A A A A A A A A A A A A A A A A A A	

8:00

CLUB ROOM: Poster session and cash bar

Aldridge Styles of Mrealization D. Anderson BEODED STRATABOUND CROSS-CUTTING CONDUITELLE - FRAGMENTINS VRINS DISSEMINATED - Frs. simple sulphides - longer vertical dimension then horszonkel Intrusive - Re Intel - Mayre sills - gtz carbonate of do LA-MA bellow It withe marker middle of the MA 2) Longonente le 3) Faultry North Star - original discovery in 1892 - not immediately associated with tourmalinite
-gtz-service host Vulcen - bedded, discontinuous bedded galery typhlerile with lots of Microchne - major fragmental sthong with. no tournalihite Kordeney King - brown & dark gray argillite sericities
green caleveous argillite hast to are - 22,000 tonnes 5,5% 8.5% Za - Small volumit unit along same Concentrator AsM - po, sphal from mine -5-7 km from mine horizon down hill Vine stratiform zone -dark wacke -po zone
8-10 cm thick - up to 3 km from vein
at Sullivan horizon - distal app, up as well as 50/50hal