

Operators: It's a hobby spanning Morse code to the digital age

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SDR (software defined radio) built into it — it's got a nice color touch screen," Eaton said. "We had 16, they were gone in the first hour."

Radio communications are expected to play an important role in the event of a disaster that brings down utilities.

From June 7-10, ham radio operators will participate in Cascadia Rising, the emergency preparedness exercise simulating the first four days following a Cascadia earthquake or tsunami.

"It doesn't matter where you are," SEA-PAC Public Information Officer Nicole Crosby said. "There are earthquakes in California, flooding in the Midwest and hurricanes in the East. Each one is its own problem area."

From Morse Code to the digital age

Ham radio operators are in all generations — it's a hobby spanning Morse code to the digital age.

Upstairs, novices and bargain-hunters alike prowled tables of used equipment.

"It's what every ama-

teur radio operator does," Tim Coleman of the Clark County (Washington) Amateur Radio Club said. "We buy used equipment to get started in the hobby, then we upgrade equipment," he said. "Then we sell the old stuff."

Don Hawkins of Portland displayed R.L. Drake equipment from the 1970s, "the transition stage between vacuum tubes and semiconductors," according to Hawkins.

Like Coleman and other flea market vendors, he said he looked forward to a trip to the convention floor "to buy new toys" from his own sales proceeds.

Downstairs, Portland's Louis Bybee offered Morse code keys, power amplifiers for radio, soldering guns, tools, power supplies — what he called "a little bit of everything."

Jack Tiley of Spokane, Washington, displayed antique measuring instruments donated by Gonzaga University to raise money for the local amateur radio club.

His prize was a potentiometer, a precision box for calibrating capacity devices.

"This was the way they did it before they had precision instru-



Danny Miller/The Daily Astorian

John Foley from Hood River takes a look at a late 1930s Morse Code Keyer on sale at the SEA-PAC Ham Radio Convention flea market on Saturday, at the Seaside Civic and Convention Center.

ments," Tiley said. "It's very unusual. It's what they used in the primary standards labs in the 1940s and '50s. Today it's a collector's item or a museum piece."

Ron Plummer of Los Angeles is celebrating his 70th year in ham radio.

"When we started in the hobby, it was all tubes," Plummer said. "There weren't any transistors. Almost everybody built their own equipment. Now you go to the store and buy what you need."

Morse code still has its role in radio communications, Plummer said.

Also referred to as "CW," or continuous wave, Morse code adds reach and is a "great way to talk to people all around the world," especially when there is a language barrier.

In case of emergency

Radio communications are expected to play an important role in the event of a disaster that brings down utilities.

At his SEA-PAC table, John

Hays, director of marketing for NW Digital Radio, displayed a high-speed digital radio with expanded network reach. The UDRX-40 Universal Digital Radio sells for \$395, and is supported on Windows, Android, Macintosh and Linux browsers. "There's a resurgence in having an alternative way to send messages in a disaster," Hays said.

In the Seattle area, hams are building a high-speed network to supplement the internet, which could be brought down in a disaster. "It's bigger than Cascadia, but Cascadia's certainly part of the motivation," he said.

One vendor had nothing with a plug, battery or cable on her table.

Gretchen Otto, a distributor of Thrive Life, offered samples of "Freeze Dried Snackies," ideal for a well-stocked home following a disaster, she said.

"Once you open them, for most of the items, you have a year to eat the contents," she said. "The beauty of it is, you can literally eat everything without water except maybe the sauces and cookies," Otto said. "I've tried every meat, every vegetable, every fruit, without water. "Some were a little dry, but good."

Getting started

Whether getting into amateur radio for fun or for survival, newbies don't need to spend the \$1,500 necessary for state-of-the-art equipment. Used equipment can be found for under \$100, and all radio operator tests are priced at \$15, according to Crosby.

Entry level is called "technician," followed by general license and amateur extra, which allows access to all available U.S. Amateur Radio operating privileges on all bands and all modes.

For more information, contact Clatsop County Auxiliary Communications or the Amateur Radio Emergency Service.

Local clubs include the Sunset Empire Amateur Radio Club, Seaside Tsunami Amateur Radio Society, Cannon Beach Amateur Radio Society and Oregon Coast Hams.

Links to these and other amateur radio groups can be found at clatsop-ares.org.

"From people who do it for fun, to contest teams, emergency communications, preparedness, weather-watchers — people use the ham radio," Ham Radio Outlet's Eaton said. "It's a great means of communication."

WARRENTON VALEDICTORIAN

Maggie Cote
Continuing education: Oregon State University.

Community/school involvement: Student Council, National Honor Society, Key Club, CommunityCare, Prom Committee, Clatsop County Animal Shelter, Voices from the West oral histories.

Scholarships: Oregon State Academic Achievement Award, Dick and Harriet Baldwin Scholarship, Murl G. Peterson Academic Achievement Award.

Sports: Volleyball.

Favorite class and teacher? Calculus and Mr. Rod Heyen.

What will you remember the most? I'll remember all the people who have been a part of my life over these past four years. I have made many great memories and become the person I am today because of them.

Advice for success? Work hard and use your time wisely.



WARRENTON VALEDICTORIAN

Sarah Stein
Continuing Education: Augustana University.

Community/school involvement: Student council, National Honor Society, CommunityCare, recycling project.

Scholarships: L.R. Hitchman Award, Dick & Harriet Baldwin Scholarship, Murl G. Peterson Academic Achievement Award.

Sports: Track and field.

Favorite class and teacher? Calculus with Mr. (Rod) Heyen or creative writing with Mrs. (Jessica) West.

What will you remember the most? Mr. Heyen yelling at us whenever he got really excited about math.

Advice for success? Know when to ask for help.



Daily Astorian/File Photo

Knappa sophomore pitcher Paris Vanderburg was one of three Logger softball players named first-team all-league.

Five Loggers on all-league team

The Daily Astorian

The Knappa Lady Loggers placed six players on the all-Northwest League softball team, announced at the league's playoff tournament.

There were only five seniors among the 29 players, including Player of the Year Cassidy Fetch of league

champion Vernonia, which had eight players selected all-league.

Knappa sophomores Jaden Miethe, Kaitlyn Truax and Paris Vanderburg were all named to the first team, while junior Alisha Murphy was second team. Junior Hailey Murray and freshman Hannah Hellberg were selected honorable mention.

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TV LISTINGS

THE DAILY ASTORIAN Evening listings TUESDAY

TUESDAY EVENING												JUNE 7	
A	L	6 PM	6:30	7 PM	7:30	8 PM	8:30	9 PM	9:30	10 PM	10:30	11 PM	11:30
2	KATU	(2) KATU News at 6		Jeopardy!	Wheel of Fortune	The Bachelorette Jo Jo Fletcher looks for true love among 25 men. (N)	20/20					KATU News at 11	(35) Jimmy Kimmel
4	KOMO	(4) KOMO 4 News		Wheel of Fortune	Jeopardy!	The Bachelorette Jo Jo Fletcher looks for true love among 25 men. (N)	20/20					KOMO 4 News	(35) Jimmy Kimmel
5	KING	(5) NBC Nightly News	KING 5 News	KING 5 News	Extra	America's Got Talent "Auditions" Variety acts of all types audition. (N)	Maya and Marty (N)					KING 5 News	(35) Tonight Show
6	KOIN	(6) KOIN 6 News at 6	CBS Evening News	Extra	Ent. Tonight	NCIS "Incognito"	NCIS: New Orleans "Shadow Unit"	Person of Interest "Synecdoche" (N)				KOIN 6 News @ 11	(35) S. Colbert
7	KIRO	(7) KIRO 7 News	CBS Evening News	The Insider	Ent. Tonight	NCIS "Incognito"	NCIS: New Orleans "Shadow Unit"	Person of Interest "Synecdoche" (N)				KIRO News	(35) S. Colbert
8	KGW	(8) KGW News at 6:00 p.m.		Live at Seven	Inside Edition	America's Got Talent "Auditions" Variety acts of all types audition. (N)	Maya and Marty (N)					KGW News at 11	(35) Tonight Show
9	KRCW	(9) KRCW 3	Seinfeld	Modern Family	Modern Family	The Flash "Flash of Two Worlds"	Containment "Be Angry at the Sun"	KGW News at 10				(05) Two 1/2 Men	(35) King of Hill
10	KOPB	(10) Ask-Old House	Business (N)	PBS NewsHour		Oregon Art Beat "Beverly Cleary"						The Highwaymen Live at Nassau Coliseum	
12	KPTV	(12) 6 O'Clock News		Family Feud	Family Feud	Hotel Hell "Town's Inn, Part 1" 1/2 (N)	Coupled "At First Sight" (N)	10 O'Clock News				11 O'Clock News	Loves Ray
13	KPDx	(13) Mike & Molly	Mike & Molly	Big Bang Theory	Big Bang Theory	FOX 12's 8 O'Clock News on PDX-TV	FOX 12's 9 O'Clock News on PDX-TV	The Walking Dead "Strangers"				Walking Dead "Four Walls and a Roof"	
13	KCPQ	(13) Name Game	Modern Family	Big Bang Theory	Big Bang Theory	Hotel Hell "Town's Inn, Part 1" 1/2 (N)	Coupled "At First Sight" (N)	Q13 News at 10				Q13 News	Modern Family
20	TBS	(20) Seinfeld	Seinfeld	Seinfeld	Seinfeld	Big Bang Theory	Big Bang Theory	Separation "Marty and Lindsey" (SF) (N)				Conan (N)	
22	KZJQ	(22) Two and a Half	Two and a Half	The Simpsons	The Simpsons	Modern Family	Modern Family	Q13 News at 9				Friends	Friends
29	ESPN	(29) (5:00) NCAA Softball	Division I Tournament (L)			SportsCenter The day's news in the world of sports.	SportsCenter					SportsCenter	
30	ESPN2	(30) (4:00) MLB Baseball (L)		WNBA Basketball	New York Liberty at Los Angeles Sparks (L)		Baseball Tonight (L)	SportsNation				Jalen & Jacoby (N)	NFL Live
31	NICK	(31) SpongeBob	Henry Danger	Henry Danger	The Thundermans	The Thundermans	NickyRickyDicky	Full House				Full House	Friends
32	DISN	(32) (15) Liv Maddie	(40) Best Friends	(05) Bunk'd	K.C. Undercover	Stuck in Middle	Liv and Maddie	Bunk'd				Full House	Friends
34	FAM	(34) (5:00) Meet the Parents	(00, Com) Robert De Niro, Blythe Danner, Ben Stiller.	(15) Meet the Fockers	(2004, Comedy) Ben Stiller, Dustin Hoffman, Robert De Niro.			Bunk'd				Liv and Maddie	Girl Meets World
35	FMC	(35) (5:00) Tooth Fairy	(55) Meet the Tooth Fairy	(10) Ashley Judd, Dwayne "The Rock" Johnson.		(45) FXM Presents	Weekend at Bernie's (89) Andrew McCarthy.	(50) FXM Presents				Weekend at Bernie's	Andrew McCarthy.
36	LIFE	(36) Dance Moms		Dance Moms		Dance Moms: Dance and Chat	Dance Moms	Dance Moms				Dance Moms	Dance Moms
38	ROOT	(38) Mariners Access	MarinersPre-game	MLB Baseball	Cleveland Indians at Seattle Mariners Site: Safeco Field -- Seattle, Wash. (L)			Post-game				MLB Baseball	Cleveland Indians at Seattle Mariners
39	F51	(39) (5:00) Soccer Copa America Centenario (L)	Copa Pre-game	Soccer	Copa America Centenario Colombia vs. Paraguay (L)			Copa Post-game				Fox Sports Live	Copa Tonight (L)
43	SPIKE	(43) (5:00) Out of Time	(03) Eva Mendes, Denzel Washington.	Four Brothers	(2005, Action) Tyrese Gibson, André Benjamin, Mark Wahlberg.			*** The Book of Eli	(09, Adv) Gary Oldman, Mila Kunis, Denzel Washington.			Tosh.0	Nikki Glaser
44	COM	(44) Futurama	Futurama	Futurama	Tosh.0	Tosh.0	Daniel Tosh: People Pleaser	Tosh.0 (SP) (N)				Tosh.0	Nikki Glaser
45	HIST	(45) Counting Cars	Counting Cars	Counting Cars	Counting Cars	Counting Cars	Counting Cars	(05) Forged in Fire				(05) Forged in Fire	
46	A&E	(46) The First 48 "Uncommon Valor"		The First 48 "Shattered"		The First 48 "Kiss of Death"	*** Walking Tall	(04) Johnny Knoxville, Dwayne "The Rock" Johnson.				(05) The First 48	
47	TLC	(47) My Giant Life		People "A New Kind of Thanksgiving"		L.P. "A Rolloff Winter Wonderland" (N)	Little People, Big World (N)	My Giant Life				My Giant Life	The Year of Lindsay" (N)
48	DISC	(48) Deadliest Catch "Winter is Coming"		Deadliest Catch "Into the Gale"		Deadliest Catch "Proving Grounds" (N)	Deadliest Catch "Raw Deal" (N)	Dark Woods Justice "Beware" (P) (N)				Deadliest Catch "Raw Deal"	
49	NGEO	(49) Life Below Zero "No Boundaries"		Cocaine Wars "Drug Speedboats"		Inside Cocaine Wars "Airport Sting"	Airport Security: Colombia (N)	Airport Security: Colombia (N)				Airport Security: Colombia	
50	TNT	(50) Castle "Flowers for Your Grave"		Castle "Nanny McDead"		Castle "Hedge Fund Homeboys"	Castle "Hell Hath No Fury"	Castle "A Chill Goes Through Her Veins"				CSI: NY "Officer Blue"	
51	AMC	(51) (4:30) Mr. Deeds	*** Hitch (2005, Comedy) Eva Mendes, Kevin James, Will Smith.				Feed the Beast "Pilot Light"	Feed the Beast "Father of the Year" (N)				Feed the Beast "Father of the Year"	
52	USA	(52) Law & Order: S.V.U. "Pursuit"		Modern Family	Modern Family	Modern Family	Modern Family	Modern Family				Chrysler Knows (N) First Impres (N)	Modern Family Modern Family
53	FOOD	(53) Chopped "Break a Crab Leg!"		Chopped "Short and Sweetbreads"		Chopped "Trail Mix and Match" (N)	Chopped "Healthy Rivalry"	Chopped "Chopping Block Blues" (N)				Chopped "Amateurs Redemption"	
54	HGTV	(54) Fixer Upper		Fixer Upper		Fixer Upper	Fixer Upper	House Hunters				House Hunters	Fixer Upper
56	FX	(56) *** The Hangover Part II	(11, Com) Zach Galifianakis, Ed Helms, Bradley Cooper.			Anchorman 2: The Legend Continues	(2013, Comedy) Steve Carell, Christina Applegate, Will Ferrell.	Anchorman 2: The Legend Continues	(13) Will Ferrell.				
57	CNN	(57) America's Choice "Super Tuesday 5"		America's Choice "Super Tuesday 5"		America's Choice "Super Tuesday 5"	America's Choice "Super Tuesday 5"	America's Choice "Super Tuesday 5"				Early Start	
58	FNC	(58) The Kelly File With Megyn Kelly		Hannity		The O'Reilly Factor	The Kelly File With Megyn Kelly	Hannity				On the Record	
61	CNBC	(61) Shark Tank		West Texas Investors Club (N)		Shark Tank	Shark Tank	West Texas Investors Club				Paid Program	Paid Program
63	BRAV	(63) Below Deck "Model Deckhands"		Below Deck "Lovestick Carol"		Below "My Big Fat Greek Threesome"	Below Deck: Mediterranean (N)	Tour Group "Not So Happy Endings" (N)				Below Deck: Mediterranean	
64	TCM	(64) (5:00) Jigsaw	(62) John Le Mesurier.	*** Brighton Rock	(47, Cri) Carol Marsh, William Hartnell, Richard Attenborough.		*** The Gay Divorcee	(1934, Musical) Ginger Rogers, Alice Brady, Fred Astaire.				Bank Holiday (1938, Drama) John Lodge.	
65	SYFY	(65) Movie	*** The Time Traveler's Wife	(2009, Drama) Eric Bana, Michelle Nolden, Rachel McAdams.			*** Warm Bodies	(13, Com) Teresa Palmer, Analeigh Tipton, Nicholas Hoult.				Frequency	(2000, Sci-Fi) Dennis Quaid.
162	RFD	(162) (5:30) Cattlemen	American Harvest	Horse. "Rescue Horse Rehabilitation"		Chris Cox	Rural Eve. News	Ag PhD				Cattlemen to Cattlemen	American Harvest

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