

# PSES High-Tech Toys 2012

- Agenda
  - Select technology update
  - Applications
    - Observe
    - Communicate
  - Q&A along the way

# The High-Tech Toy

- Definition
  - Gadget+more
  - Takes all spare cash
  - Need more than one
  - Novelty to others
  - Necessity to us!



# Survey by Hands

- Facebook, Twitter
- E-reader (Kindle, Nook)
- Tablet PC
- Laptop
- Smartphone (Windows, iOS, Android)
- FRS radio
- Weather alert receiver (NOAA SAME)
- Internet TV (Roku, Google, Apple)
- Electric/Hybrid vehicle
- AC generator
- Solar power (phone, panel, radio, watch)
- Amateur radio mobile rig (20+ watts)

# Flying Shark

- Air Swimmer
- Shark is filled with helium
- Control to 40 feet
- Infrared remote
- \$30



# Robot

- Karotz
- Social media helper
- Friends can take control in order to communicate, sending messages as well as audio files
- integrated webcam
- Send a poke & Karotz' ears will move
  - Change the color of its light in order to get your attention when all other forms of online communication fails
- RFID activating children
- App store
- News, weather, sports, email, & PC commands
- \$180



# RCA BR950

- 2013 FCC Compliant
- 5 Watts UHF / VHF
- 400-470 MHz UHF / 136-174 MHz VHF
- 256 Channels
- CTCSS / DCS
- Narrowband / Wideband
- X-Sound Plus™ – Enhanced Audio Clarity with 1000mW Loud Speaker
- 10 Character Alpha-Numeric LED Display
- DTMF Keypad
- Time-Out Timer
- Battery Saver Mode
- MDC1200
- RDC2400™
- Man Down
- Emergency Signaling
- Lone-Worker Function
- Built-In Encryption - Type Voice Scrambler
- Text Messaging
- Various Scanning Methods
- Phone System Integration Capability
- Two Programmable Function Keys
- MIL-STD-810C/D/E/F - Meets Military Specifications for Durability, Shock, Extreme Temperatures, Vibration, Dust, & Moisture.
- Class IP67 Approval for Dust & Water Protection.
- Ultra Durable with Reinforced Compound Molding
- \$525



# SpareOne



## EMERGENCY MOBILE PHONE NATURAL DISASTER

*"I couldn't find  
power anywhere"*



[ When finding POWER is the most important option! ]

*When re-charging your phone at home or office is no longer an option, the SpareOne is ready to use with a shelf life of up to 15 years*

# Speaker

- BluCan
- Bluetooth speaker
- 360-degree sound
- Controls for play, pause, track forward, track backward, answer, volume, & hang-up
- Coming soon





# AA Battery Test Results

Brand	Duracell®	Kirkland	Energizer®	Energizer®	Lenmar®
Model	Ultra Power™ AA	Signature AA	max® AA	Ultimate Lithium™ AA	NiMH 2500 AA
Price per Use	\$1.243	\$0.330	\$0.868	\$2.246	\$0.005
Capacity (@0.7A) mAh	1442.5	1399	1691	3009	2296
Capacity (@1A) mAh	1300	1023	1329	3045	2189
Cost per Watt-Hr	\$0.637	\$0.215	\$0.435	\$0.498	\$0.002
Ratio to CA Electric Rate	4253:1	1436:1	2904:1	3322:1	10:1

# Rechargeable AA Kit

- Eneloop 1500 Super Power Pack
- Rechargeable 1500 times without memory effect
- Low Self Discharge: Batteries maintain 75% of charge after 3 years of non-use
- Pre-charged & ready to use
- 4 position charger with worldwide voltage charges up to 4 AA or 4 AAA cells
- Convert AA cells into C or D cells by using spacers
- \$40



# Battery+

- Duracell DPP-600HD Powerpack 600
- One DC outlet
- Three three-pronged AC outlets
  - 480-watt continuous / 600-watt peak
- 5-watt flashlight
- Overload/over-temperature protection & reverse polarity detection
- Built-in AM/FM radio & digital alarm clock
- 28-AH AGM battery (2x typical)
- Add Powerpoles!
- \$140



# The Bigger Emergency

- Underpants
- Unisex
- Single or dispenser
- \$4 or \$8



# Disaster Surveyor

- Topy Survey Runner (S92-LW)
- Unmanned Ground Vehicle
- Environmental sensors
  - Radiation
  - Cameras
- 1300-ft tether
- 88-lbs
- CES \$\$\$?



# First Aid Kit

- Matsushita Electric Industrial Co.
- People will be able to consult doctors from home
  - Attached camera, monitor & microphone
  - Person's weight & percentage of body fat when the user sits on a toilet seat.
- Used in Japan's disaster zones

# 1-TB Knife

- Victorinox (Swiss Army) brand
- 1 terabyte SSD data storage
  - 64GB, 128GB, & 256GB available
- USB 3.0 & eSATA ports
- 96x48-pixel display
- \$3,000 later this year



# Flashlight (Favorite EDC)

- Since 2010!
- Proton PRO Personal LED
- Single AA battery
- 2W Cree LED
  - ~115 max lumens
- White & Red beams
- 4 Safety strobe modes: Slow - Medium - Fast - SOS
- Signal / Morse Code mode
- \$40





# Flashlight (Guinness)

- “Torch”
- 4100-lumens
- 100-watt halogen
- Rechargeable
- \$200



# Flashlight with Camera

- High Powered White LED Flashlight
- "Dimmerable" LED light for different scenarios
- Highly durable with precision tooled aluminum housing
- Compact Size & portable DVR System
- Built-in 4GB Flash Light (supports up to 32GB)
- MPEG4 Video Recording (Video + Audio in AVI format)
- Built-in CMOS Color VGA Sensor (640×480)
- Support 2 Hours VGA Recording
- Night Vision support
- Backup using USB2.0 compatible interface
- Easy operation with one touch control
- Built-in Ni-MH Charger (12V input)
- \$227



# Firesteel

- Durable
  - Army model lasts 12000 strikes
- Produces a 3000°C (5,500°F) spark
- Works when wet
- Bright spark
  - Can be used as emergency signal
- Beware TSA
- \$10



# Scooter

- BOXX Electric Scooter
- Zero emissions electric vehicle
- All Wheel Drive (AWD) system
- Traction Control, ABS systems
- 35 mph
- 40 miles per charge
- Riders up to 300-lbs & 6'6" tall
- \$4000



# Super SUV

- Paramount Marauder
- Crew of 2 + 8
- Payload 5,000kg
- Various driveline, turret & weapon systems options including 4x4 & 6x6 vehicle configurations
- Air Burst
  - 155mm High Explosive at 60m Azimuth  
360 deg Elevation 0-30 deg
- Ballistic Protection
  - 7.62x54mm RB 32 API & .50cal API  
(Equivalent to STANAG 4569 level III)
- Mine Protection
  - Double anti-tank mine (14kg TNT)  
under any wheel.
  - Single anti-mine (7kg) under the hull.  
(Higher than STANAG 4569 level 4a & 4b)
- \$475,000



# Float to Safety

- Sevydor Colossus
- 4-person inflatable boat ideal for rapids or river floats
- Durable 23-gauge PVC construction with Airtight system
- 3 separate air chambers provide extra puncture-resistance
- Double-Lock valves; includes 4 oarlocks & oars
- \$85



# Family Base Station

- 22 GMRS/FRS channels
- 10 NOAA weather channels with alert function
- AM/FM radio reception
- Clock with an alarm
- 3-LED flashlight
- VOX automatic voice-activated operation
- USB port for charging cell phones, radios, etc.
- Powered by
  - Dynamo hand crank
  - AC or DC power adapters
- Water resistant
- \$61



# Pure Water

- Katadyn Hiker PRO Water Microfilter
- Convenient filter for 1 to 2 persons
  - Hiking or camping
  - Emergencies
- Removable filter protector extends cartridge life in challenging conditions
- Compact design & easy operation-- Fits in any backpack or travel bag
- Allows direct attachment to drink tube (1/4" ID) of hydration
- Additional hydration connector fitting for quick filling of hydration packs
- \$70





# No Salt Water

- Katadyn Desalinator
- Removes salt, bacteria, viruses & other contaminants
- 1 ounce of drinking water in two minutes
- Salt Rejection
  - 98.4 percent average
  - 95.3 percent minimum
- 2.5-lb
- \$839



# Breathe

- Disposable mask
- Bacteria & dust
- BFE 99.5
- PFE 99.7%
- Fluid resistant
- \$5/50-pack



# Heart

- Philips HeartStart Home Defibrillator (AED)
- Reliably runs daily self-tests for readiness
- Safely delivers a shock only if needed
- \$1200



# New Home Stat!

- DH1 Disaster House
- 14' square shed built about 30" off the ground
- Not waterproof & insulation is not included
- \$22,000



# Alarm

- Kidde KN-COSM-B
- Carbon Monoxide
- Smoke Alarm
- Talking Alarm
- AAA Battery-Operated
- \$30



# Electricity

- Honeywell HW2000i
- 2000 watts
- 5 hours
- \$650



# Heat

- Portable 23,000-BTU kerosene heater
- 1000 square feet
- Automatic push-button ignition
- 1.9-gallon fuel capacity
  - 10 to 12 hours of heat
- Supplemental heating & emergency situations
- Fuel gauge; automatic safety shut-off; siphon pump & batteries included
- \$100



\$13

**SE** **Portable Camping Cooking Bag** CA1010H

**DANGER**  
CAUTION: Do not touch the hot surface of the bag or the food inside.  
Do not use for cooking.

**HEAT UP CANNED FOOD QUICKLY AND EASILY**

**INCLUDES:**

- 20 Heating Packs
- 1 Measuring Cup
- 1 Spoon & Removable Food Warmer Bag

**HOW TO USE:**

- The Maximum Heating Temperature is 200°F (93°C).
- Heating Time Can Last for 20-25 Minutes.
- The Left Side Handle is Designed for Gripping & Lifting.
- Great for Camping, Hiking, & More.

**WATER** + **HEATING PACK** + **FOOD**

20mL (2.7 fl. oz.) water per heat pack  
to heat 10.8 oz. of food

**NO FIRE, NO ELECTRICITY!  
JUST ADD SOME WATER!**

© SE 2009



# Stove

- Boils water in 5 minutes
- Works well in extreme weather conditions (waterproof & windproof)
- Compact & portable
- Sets up & cleans up in seconds
- Fuel source is safe & non-explosive
- \$25



# Cooktop

- PerfectFlow InstaStart Fold'n Go
- Two 10,000 BTU burners
- \$80



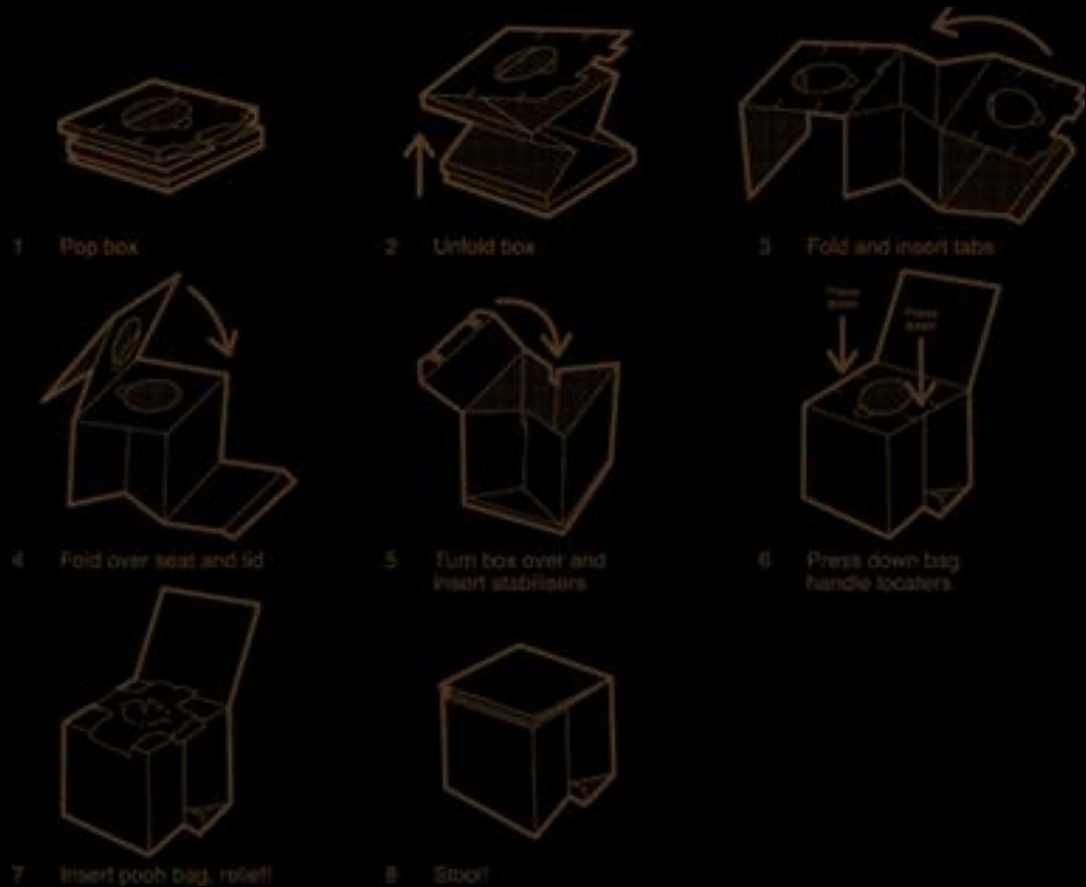
# Sleep

- TETON Sports Outfitter XXL Cot
- Oversized camping cot with patented steel leg frame
- Supports up to 600-lbs
- Hassle-free setup; measures
- 85 x 40 inches when open
- Folds up to 42 x 12 x 7
- \$116



# "S\*%t Camo Pack" (10)

**£18.99**  
PER PACK



# Crowd Control

- Jet Pulse Water Cannon Kit
- Riot control
- Short pulse, long pulse or continuous stream
- \$120,000



# “Active Denial”

- Crowd control
- New class of nonlethal weaponry
- Uses rays & energy to rapidly heat up someone’s skin
- 95-GHz
- Pea-sized blisters in less than 0.1% of the exposures
- ~\$3M prototype



# Radiation Monitor

- Monitoring is "ON" 24/7 with long-life 10-year battery
- Range encompasses the higher emergency radiation levels
- EMP immunity
  - Meets
    - MIL-STD-461D
    - RS105
- \$160





# Potassium Iodide

- FDA approved for thyroid blocking in a radiation emergency (only)
- \$14





# Emergency Radio

- **Voyager Radio Features**
  - AM/FM
  - Shortwave 1 & 2
  - 7 Weather Bands
  - NOAA Emergency Weather Alerts
- **Lighting Features**
  - LED Flashlight
  - Red LED Emergency Flasher
  - 5 LED Reading Light
- **Power/Charging Features**
  - Solar
  - Dynamo (Hand Crank)
  - 3 "AA" Batteries
  - AC Adapter (not included)
  - USB Port
- **\$58**



# Mobile Digital TV

- On tablets & smartphones
- Live TV (not ATSC)
- Mobile Emergency Alert System
- PBS Las Vegas



# Wrap Up

- Show & tell
- Questions
- Answers

