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Nath* | | **12:00 PM: Meeting Call to Order**   * Greeter – Heather Schoeppe * Song    - Lynn Heinrichs * Pledge  - Glenn Yarborough * Invocation – Rick Neldon * Happy Talk  - Rick Neldon * 4-Way Test  - Lynn Heinrichs   **12:20 PM: Begin Program**   * Welcome Guests and Visiting Rotarians – Sergeant At Arms * Happy Talk   **12:40 pm – Speaker**  **1:15 pm - 50/50 Raffle (Glenn Yarborough) & Adjournment** | |  | |  | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  | | --- | | [September 30, 2014 - Program](http://portal.clubrunner.ca/1882/Stories/september-30-2014-program)  *Posted by Jan Auerbach* | | **Tom Behley** introduced speaker Norika Hikosaka Behley who was a senior analyst for science technology policy at the CIA until she retired in 2007. In 2012 she published a 700-page book on fuel cell technology.  Ms. Behley became interested in fuel cells in 2000 when the Department of Energy (DOE) initiated work on a fuel cell car. In 2003 DOE initiated work on hydrogen fuel technology. The first prototype fuel cell cars came out in 2005. She said that fuel cells involve a very difficult technology that is not cheap or reliable enough yet for mass production.    Welshman Sir William Grove developed the first fuel cell in 1839 while he was trying to develop a better battery. Batteries and fuel cells have similar technologies. However, batteries store chemical energy and convert it to electrical energy, whereas fuel cells generate electrical energy in a single step. Fuel cells have the potential to last much longer than conventional batteries.  They have three components: anode, cathode, and electrolyte. They use hydrogen, oxygen, and/or fuel to generate heat and energy. There are five classes of fuel cells, distinguished by the electrolyte used. Alkaline fuel cells have military and space uses. Phosphoric acid, molten carbonate, and solid oxide fuel cells are used to generate electrical power. Polymer electrolyte membrane (PEM) fuel cells are used in cars.    Japan is a leader in fuel cell research, with a budget of $350 million in 2014. The European Union has a budget of 200 million Euros, while the United States has a budget of $100 million. Japan has the most fuel cell patents, while the United States has the second most. Eventually, fuel cells could be used in laptops, cell phones, and motorbikes, and provide electrical power up to 400KW. In 2015 Toyota and Honda plan to introduce fuel cell-powered cars.  After decades of public and private funding, companies which invested in fuel cell research have shown no profit from it. South Korea companies are now showing the most interest in fuel cell production. However, almost no fuel cell products are currently commercially competitive with conventional counterparts without subsidies or tax credits. The major impediments to commercialization are high cost, insufficient longevity, reliability, and efficiency. She believes a new approach is needed and has designed a $600,000 research study on fuel cells. She has received a commitment of $200,000 from DOE and $100,000 from the National Science Foundation. She is requesting the remaining $300,000 from Congress. | |  | |  | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  | | --- | | [September 30, 2014 - Announcements](http://portal.clubrunner.ca/1882/Stories/september-30-2014-announcements)  *Posted by Jan Auerbach* | | * **Paul Sawtell** reminded members of the Great Falls club dinner with the Ukrainian Ambassador on October 26 (tickets are $75) and the Falls Church club fellowship dinner on October 30 * **Jan Auerbach** said the next chocolate festival committee meeting will be on October 14, not on October 7 as originally scheduled * **Paul Sawtell** said District Governor Rich Story is looking for candidates for District Governor for the 2017-2018 year. Each club can nominate one member. Glenn Yarborough is willing to be McLean’s nominee but Paul wants to know if others want to be considered * **Kathy Martin** announced the Run with the Warriors is this Saturday, October 4; the event is over by 10 AM * **Vance Zavela** said we have $4,000 in Monte Carlo sponsorships so far but hope to have $12,000. He also has tickets for members to buy for Monte Carlo. The Washington Capitals have agreed to hold an EndPolioNow night on March 7 at a game against the Buffalo Sabres. He needs someone from the club to coordinate ticket sales, as he is doing with the EndPolioNow night the Washington Wizards are holding on April 12. Artfest is this Sunday, October 5, and still needs volunteers.​ * **Joe Cacciapaglia** announced that the Vienna Business Association is holding an Oktoberfest on the town green this Saturday, October 4, from 11 AM to 6 PM. Proceeds will go to support Vienna’s First Night on New Year’s Eve. | |  | |  | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  | | --- | | [September 30, 2014 - Happy Talk](http://portal.clubrunner.ca/1882/Stories/september-30-2014-happy-talk)  *Posted by Jan Auerbach* | | * **Rick Neldon** went to Parents’ Weekend at Ohio University last weekend. His daughter took him and his wife to the football game, to see the Second City comedy troupe, and to church, the last of which surprised him. * **Tom Mangan** participated in the Strategic Water Alliance 5K last Sunday which had 70 participants; then he went to the fellowship dinner at **Jan Auerbach**’s and enjoyed her wonderful desserts and Chet Gray’s music. * **Joe Cacciapaglia**’s youngest child turned 12 and likes middle school. * **Chet Gray** enjoyed the fellowship dinner. He was told not to ask Obie, who was sitting next to him, to sing, and he later thought that was good advice. * **Carol Stone** enjoyed a family reunion on Sunday sailing on the Chesapeake Bay and celebrating her daughter’s 28th birthday. * **Celia Ford** was in Ohio visiting her son and grandson. She went to Cincinnati for a USO benefit gala which drew 200 people. The Cincinnati Pops played. Proceeds were to benefit the USO in Washington, DC. * **Dale Lazar** was in Las Vegas last weekend teaching a course to patent lawyers. * **John McEvilly** attended a wedding in St. Louis last weekend. His brother got copies of their father’s discharge papers which were dated January 1946. John felt that date explained why he was born in October 1946. * **Obie O’Bryon** was able to do research on Jan’s cakes at the fellowship dinner so he now knows what to bid on at Monte Carlo Night. He noted that his parents met through the USO during World War II**.** * **Bob Jansen** was pleased to participate in the Strategic Water Alliance 5K walk Sunday morning and then the fellowship dinner at Jan’s in the afternoon. He thanked Tom Mangan for walking the 5K and for donations from other Rotarians. He also appreciates all the musical talent in our club. * **Keith Argow** was in Minnesota last weekend and saw air tankers. He is concerned about protecting our watersheds. He was able to get back on Friday through Chicago before the fire canceled many flights. He flew Spirit Airlines which announces that their seats don’t recline so they can get more rows of seats in the plane and keep fares down. * **Pamela Danner** is celebrating her 42nd wedding anniversary today. She was sorry to miss Gene Durman’s classification talk last week because she wanted to see his Antarctica photos * **Vance Zavela** went to Chicago last weekend but, because of the fire, he had to go through St. Louis to get there. Because of the flight delay, his daughter Catherine was able to play in her team’s soccer game and she was MVP in the game. He is happy the Washington Fife and Drum Corps will march in the Winterfest parade. * **Paul Ward** was happy that St. Francis Church is celebrating its 50th anniversary. There will be a jazz mass this Saturday at 7:30 to help celebrate the event.​ * **Paul Sawtell** noted that his son was born 35 years ago today. | |  | |  | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  | | --- | | [50-50 Raffle - September 30, 2014](http://portal.clubrunner.ca/1882/Stories/50-50-raffle-september-30-2014)  *Posted by Jan Auerbach* | | **Dale Lazar** won the $18 pot. | |  | |  | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  | | --- | | [Visiting Rotarians and Guests - September 30, 2014](http://portal.clubrunner.ca/1882/Stories/visiting-rotarians-and-guests-september-30-2014)  *Posted by Jan Auerbach* | | **Visiting Rotarians** – Keith Argow, Vienna                                     Joe Cacciapaglia, Vienna  **Guests**:  Norika Hikosaka Behley, speaker  Tom Behley, husband of speaker | |  | |  | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  | | --- | | [Make Up Meetings Locations](http://portal.clubrunner.ca/1882/Stories/make-up-meetings-locations)  *Posted by Jan Auerbach* | | |  |  | | --- | --- | | **Make Up Meetings at Local Clubs:**  **Annandale**  Juke Box Diner, 7039 Columbia Pike, Annandale  Wednesday at12:15 PM  **Arlington**  Gates of Ballston Community Center  4108 North 4th Street  Arlington, VA  **Ashburn**  1757 Golf Club, 45120 Waxpool Rd, Dulles  Thursday from12:00 PM - 1:15 PM  **Bailey's Crossroads**  Goodwin House Bailey's Crossroads,3440 South Jefferson, Falls Church  Friday at7:30 AM  **Burke**  Brion's Grille,10621 Braddock Rd, Burke  Tuesday at7:30 AM  **Crystal City-Pentagon**  Crystal City Sports Pub, 529 23 St. Arlington  Wednesday at7:30 AM  **Dulles International Airport**  Hilton Washington Dulles in the Cardinal Lounge, 13869 Park Center Rd, Herndon  Friday at7:30 AM  **Dunn Loring-Merrifield**  Shula’s in the Tysons Marriottt, Leesburg Pike  Friday from12:00 PM - 1:30 PM | **Fairfax**  American Legion Post 177, 3939 Oak Street, Fairfax  Monday at12:15 PM  **Falls Church**  Harvest Moon Restaurant,7620 Arlington Blvd, Falls Church  Thursday at6:30 PM  **Great Falls**  River Bend Golf and Country Club,375 Walker Road, Great Falls  Thursday from7:30 AM - 8:30 AM  **Herndon**  Amphora Diner Deluxe,1151 Elden Street, Herndon  Wednesday at7:30 AM  **Reston**  Hidden Creek Country Club,1711 Clubhouse Road, Reston  Wednesday at 12:15 PM  **Sterling**  Bungalow Lakehouse  46116 Lake Center PlazaSterling  Monday at 12:15  **Tysons Corner**  Tower Club,8000 Towers Crescent Drive, Vienna  Thursday at7:30 AM  **Vienna**  Westwood Country Club  Wednesday at 12:15 PM | | | | | | |