

Parents

Good News

- Megan Richerson (Ardmore) has been awarded the Camras Scholarship to the Illinois Institute of Technology for full tuition for four years, valued at \$23,000 per year;
- Prunil Patel (Tulsa) has been admitted to Georgia Tech and to the University of Michigan; Prunil has also received an appointment to the United States Air Force Academy;
- Shereen Samadzadeh (Stillwater) has been admitted to Boston University and named a University Scholar, one of BU's most prestigious scholarships, which carries with it an award of half-tuition.

The Countdown Continues

With just one exam left to go, OSSM has finally pulled away from Jenks High School to lead the state in the Oklahoma Mathematics League Contest (OKML). Joshua Choi (Tulsa, '07), Sarah Howell (Oklahoma City, '07), Tim Thomas (Enid, '07) and Haofei Wei (Tulsa, '07) had perfect scores in Contest #5.

OKML officials list those students and Michael Yang (Edmond, '08), Axel Saenz (Tulsa, '07), Kevin Lewis (Yukon, '07), and Zhaoyang Xu (Norman, '08) among the cumulative high scoring students.

Note: students of the OSSM Enid Regional Center have also made a very admirable showing in this contest this year.

Congratulations to all, including the coaches, Professors Yunhua and Chengde Feng.

Students are looking forward to their *appointments with their state legislators next week*: Representatives Tad Jones, Bill Nations, Doug Cox, Kris Steele, Charlie Joyner (rescheduled from last week), and David Braddock; and Senators Bill Brown, John Sparks, Johnnie Crutchfield, and Mike Mazzei.

Counselor's Corner

College Visitors expected next week are:

Oklahoma State University (Monday, April 2, 11:30 a.m. - 12:30 p.m.) representative Chandra Roush who will be available to talk with juniors (and to seniors who have been admitted to OSU) about their questions concerning scholarships, enrollment procedures, etc.

Newman University of Wichita, Kansas (Wednesday, April 4, 11:30 a.m. - 12:30 p.m.) representative Rick Ferandez will provide information and applications for the Summer Science Academy for juniors. He will also speak with any seniors who may still be looking for scholarship opportunities.

Happy Birthday to:

Jessica Rushing

April 6

PAOSSM

First, thank you so much to Mr. Salwierak for his informative discussion at the meeting on the 25th. I know those who attended took much valuable information away with them.

Well, spring break is history and it seems as though we're on the downhill side of 2006-2007. But this is no time to rest on our laurels. There are still several events ahead, not the least of which is Interview Day on April 21. Many of you will be needed to help serve, help sell, and help soothe parental nerves.

Senior Parents, we need 3 to 4 pictures of your student spanning the years. Mack Harris is putting together this year's Senior Video and time is of the essence. For those in the 405 area code, you can contact Mack directly @ (405) 721-6406 or mcharris011@cox.net. Jeff Ledbetter has stepped up in a big way, helping collect photos in the 580 and 918 area codes. You can contact Jeff @ (918) 427-1750. Don't procrastinate!!!

Our next meeting: April 9 @ 6:00 pm. We'll be voting on next year's officers. Be there!

Chris & Mack Harris

From the Dean of Students

Prom tickets will go on sale next week. Please check the prom web pages for all of the details about dates, times, places, and prices.

Next weekend is an extended weekend: dorm will close at 7:00 p.m. on Friday evening and reopen for check-in on Monday afternoon, April 9, at three o'clock.

Help! The yearbook sponsorship fund is woefully under funded. Many thanks to the students who have obtained sponsorships, but we have only obtained about 45% of the needed sponsorships. Please help your son or daughter remember to obtain a \$40 sponsorship over the long weekend. Forms are available at the dorm and on my web page www.ossm.edu/~jpleason. Checks should be made payable to "OSSM Yearbook Fund."

Seniors - Graduation announcements, invitations, etc. Your orders will be delivered on Monday, April 9, 6:30-8:00 p.m. at the dormitory. Unpaid balance is due at delivery. If you wish to take care of your balance over the phone, by credit card, before the delivery date, please call Stanley's Graduation Services at 405-635-3400.

Next week the **University of Oklahoma Health Sciences Center (OUHSC) GREAT** (stands for Graduate Research Education and Technology) Symposium will take place in the Byrd Library on the Health Center campus. Seven OSSM seniors will be displaying posters of the research they have conducted. We encourage parents, faculty, and staff to drop by the library on Thursday, April 5, between 10:00 a.m. and 12:00 p.m. when the posters will be available for viewing by the general public.

Amber Lockner (Gore), mentor: Dr. William Lovallo, Director of Behavioral Science, Veterans Administration Medical Center.
“Cortisol and Cardiovascular Responses to Psychological Stressors”

Philip Harris (Oklahoma City), mentor: Dr. Jan Post, OSSM Professor of Chemistry
“Pphage Nucleation of Hydroxylapatite Crystals”

Alex Speir (Bristow), mentor: Dr. Larry Gonzalez, Department of Psychiatry & Behavioral Science, OU Health Sciences Center.
“Ethanol Withdrawal and Startle Potential”

Philip Danser (Edmond), mentor: Dr. Michael Ihnat, Department of Cell Biology, OU Health Sciences Center.
“Arsenic at the Drinking Water MCL of 10 PPB Triggers the Angiogenic ‘Switch’ in Skin Tumors”

OSSM’s own Dr. Fazlur Rahman, Professor of Chemistry, has been mentoring Maggie Qi (Tulsa), Joshua Choi (Tulsa), and Arib Rahman (Norman). He provided a more in depth summary of his students papers. They follow:

OXIDATIVE ADDITION REACTIONS OF THIOLS TO DIMETHYLPLATINUM CYCLOOCTADIENE: A MECHANISM BASED ON X-RAY CRYSTALLOGRAPHIC DATA; Arib T Rahman and Doug Powell Ph.D., A.K.Fazlur Rahman, Ph.D., in continuation of our studies on biologically important platinum complexes we have investigated the reactions of dimethylplatinumcyclooctadiene with a series of pyridine and pyrimidine thiols. In a typical reaction a dichloromethane solution of thiol is added to a solution of dialkylplatinum cyclooctadiene to form a oxidative addition product. In this case the platinum oxidizes from Pt (II) to Pt (IV). In a subsequent reaction a mole of methane is lost by reductive elimination where the platinum is reduced back to platinum (II). The reductive elimination product was isolated in 90-95% yield as a dithiolate platinum complex. When the dithiolate complex was heated it gave rise to a disproportionation product in a quantitative yield. A mechanism of this classical reaction has been postulated based on crystallographic data of the intermediate complexes and the final product.

SYNTHESIS AND STUDIES OF α -AMINO CARBOXYLATES AND PYRIMIDINE THIOLATE COMPLEXES OF PLATINUM; Maggie Qi, Aniq Rahman, Scott Mullin, Nathan Liles, Timothy Davenport, Doug Powell and faculty advisor: A.K.Fazlur Rahman, Ph.D.

ABSTRACT: Platinum (II) terpyridine complexes and their derivatives are currently of great interest due to their ability to intercalate with DNA molecules. In this presentation we report the synthesis of a series of platinum complexes (I -IV) with various amino acid and thiolate ligands using a 2:1 metal to ligand ratio in water at an optimum pH . Reaction of the Pt (en) Cl₂ , and Ru (trpy)₂RuCl with α -amino acids and pyrimidinethiols also affords the corresponding chelate of the type compounds in 80-85% yield. Spectroscopic data including NMR, mass spectrometric and infrared data have been used to characterize these complexes.

SYNTHESIS OF MANGANESE, COPPER, and SILVER COMPLEXES OF PYRIMIDINE THIOLATE COMPLEXES; Johsua Choi, Anh Tran , Doug Powell Ph.D., A.K.Fazlur Rahman, Ph.D.

ABSTRACT: Pyridine and pyrimidine thiolate complexes of transion metals are interesting compounds for their biological activity. In this project we aimed to coordinate tetrahydropyrimidine thiol and thiosailcyclic acid with Manganese, copper and silver cations. X-ray crystallographic data suggests various mode of coordination depending on the metal.

Look forward to explanations of research done by Alex, Amber, Philip H. and Philip D. in next week’s newsletter.



Thank you to . . .

The students who hosted prospective students as shadows and conducted campus tours this week for the Admissions Department: Brooke Luo (Oklahoma City, ‘07), Gabby Chen (Edmond, ‘08), Renee Cheng (Tuttle, ‘08), Mercedes Garcia (Shawnee, ‘08), and Zhaoyang Xu (Norman, ‘08);

. . . and to Matthew Lynch (Collinsville, ‘07), and Tara Sarathi (Bartlesville, ‘08) for speaking to the committees of volunteers who were on campus to review the written applications for the Class of 2009, about the OSSM experience and what to look for in a successful candidate.

Parents: If you wish to participate in the **Oklahoma Blood Institute/OSSM Spring Blood Drive** next Tuesday, you should call Johanna Lee (405/521-6441) to arrange for a specific time to come in to donate. OBI will be set up in the Reading Room, upstairs, on the north side of the Manning Academic Center.