Highlights

- Special seminar in our department
- Who is who in Plant Pathology

Highlights

- Faculty, staff, and students
- Who is visiting us

PLP News

The Newsletter of the Plant Pathology Department
Volume 3 • Issue 4
April 1999

The Flight of Sandhill Cranes and Graduate Students

by Bob Kemerait

As the end of the spring semester approaches and the temperature and humidity make it feel more like August than April, I begin to look to the promise of autumn. Fall brings with it the hopes and enthusiasm of thousands of new students and a new school year. Fall means the start of football season and Saturday afternoons spent at Florida Field. And fall marks the return of the beloved sandhill cranes to Paine's Prairie, Orange Lake, and to fields, pastures, and marshes around our county. I am filled with a deep satisfaction when I hear the first flock as it passes overhead; they fly so high that you usually cannot spot them until your eyes are guided to the formation by their throaty, rolling calls. They are welcomed back for as long as they will stay. Their journey has brought them from as far away as Canada, and one can only wonder at the difficulties they have endured. Storms, scarcity of food, and loss of safe havens due to urban sprawl have surely followed them along their route. I like to believe that there is a special bond among the dozen or so cranes that make up these migrating flocks; a bond that has been forged by shared trials and the need for companionship to reach their destination. The birds probably could not have made the trip alone, but together they have traveled thousands of miles safely.

The cranes spend the winter in our county, foraging for food, feeding in large groups, and seemingly enjoying the time spent together. And then with the advent of spring, they hear some distant call and begin to gather in preparation for their departure. They do not leave all at once, but they slowly precipitate back into groups for the journey home. You can watch as a few individuals spiral ever higher into the blue sky all the while calling for others to join them and the safety that their number provides. When the flock reaches some critical mass, the long return trip begins. However, according to local ornithologists, a small population of cranes remains year-round in Alachua County. On a recent trip to Orange Lake with Dr. Kucharek to visit a field trial, I heard the lone call of a sandhill crane from somewhere in the marsh. No one can know why this one was left behind, but in my imagination I feel that it must not have been able to answer the urgent calls of its departing brethren. Like the songs of the sirens in Greek mythology, the cries from each succeeding flock must have been tortuous to those that stayed. Sadness must follow when the calls fade into the distance.

This spring and summer, a group of exceptional students will graduate and leave our department, as will a faculty member whose commitment to science and teaching has been an important part of our education. It is no secret that the community we share as students is temporary and that one day (hopefully) we will all finish and move on to new challenges throughout the world. The names of graduates from an earlier time, such as Gitaitis, Ploetz, Young, Batchelor, Marois, Olexa, and many others are still mentioned by long-time faculty and staff. They have become the stuff of legend for current students. As a fledgling graduate student, I watched with interest as the "seniors", such as Tony St. Hill, Rose Koenig, Gustavo Mora, Bin Yan, Li-Tzu Li, and Ruhui Li graduated and left over time. I admired them, but their careers were so far ahead of mine that their graduation did not affect me directly. Others, such as Manjunath Keremane, Yong Ping Duan and Vicente Febres, remained as post-docs so that the necessity of their departure was postponed.

The graduations this spring and summer are different. When students begin this program, they are strangers in the department and their knowledge of plant pathology may be limited. I was fortunate to start in the fall of 1994 and was immediately surrounded by those who would share similar courses, concerns, and difficulties. During the period of 1994-1996, we formed a very close

group because of shared experiences and education in the department. We learned to work together, study together, and trust each other as we struggled to begin our research. We grew to depend on each other for help and also enjoyed picnics, parties, meetings and selling mushrooms together. There was never any question that someday we would leave, but our graduate experience had always been shared with this group. The group became as familiar as the walls and classrooms of Fifield Hall.

And then the graduations began. Tso-Chi Yang finished in what seemed to be an impossibly short period of time. His graduation was followed quickly by those of Tim Widmer, Tammy Plyler, Jugah Kadir, and Erin Rosskopf. I was not sure that the department as I had come to know it would survive with Erin's graduation. These students were close friends to us so that their departures were mixed with both excitement and sadness. The ranks were thinned, but a core group remained that was ever supplemented by new students and friends. Next it was Carlos Forcellini's turn to finish. Many of us had watched Carlos's son Bernardo grow and felt close to his family. Carlos was the voice of calm and reason during even the most difficult situations. Soon after Carlos left, Kenny Seebold graduated. For four years Kenny and I had shared an advisor, a lab, an office, and even a departmental mailbox. We shared a house for the final two years of his tour in the department. I miss his humor and companionship even today.

Now so many are graduating that most of those who helped me through the early years will be gone. The "family" that shared in graduate life will be scattered. Gustavo Astua-Monge, Simone Tudor-Nelson, Patricia De Sa´, Yinong Han, "Texas Bob " Harveson, Daniela Lopes, Dauri Tessmann, Xiomara Sinisterra, Adriana Castañeda and Chandra, will all be leaving. Only brother Bayram will remain and soon he too will be gone. I know how the cranes that watch as the others take to flight must feel. It is not so much a regret that I must stay, because I am excited to continue my work and there are many new friends in the department now. No, the sadness is the realization that I cannot go with these classmates, and that this marks the end of a special part of our lives.

As a student, I anticipated learning much about the science of plant pathology. I have also learned many things beyond disease progress curves, life-cycles of fungi, and systemic acquired resistance. I have learned that although we began this journey alone, we did not walk it by ourselves. We have been accompanied by special friends and classmates who struggled with us. I have learned that the best solutions to problems often come from a group of people with different ideas, backgrounds, and temperaments who work together. I have learned that doing research is much more exciting when you can share your small victories with a colleague, and much less daunting when you can share a setback with a friend. And finally, I have learned that despite the problems and strife that can develop and fester within a larger group or institution, the bonds of friendship that are formed during these same times make it all worthwhile. To those who are ready to depart now, both Dr. Kistler and the students, we in the Plant Pathology department are grateful for the times that you have shared with us. We wish you godspeed to your new homes and success in your careers. And like the sandhill cranes that return each fall, as long as we are here in Gainesville you will have a home to which you can return also.

Faculty, staff, and students

Awards:

*__Gustavo Astua-Monge__ was the recipient of the International Student Academic Award for Outstanding Academic Achievement for our department.

*The International Center of the UF also recognized four international students of our department who have a cumulative 4.0 GPA: **Daniela Lopes, Gustavo Astua-Monge, Juliana Freitas-Astua,** and **Mariadaniela Lopez.**

Congratulations to you all!

University Scholars:

*__Ms. Allison Walker,__ a plant protection major, has been awarded a university scholars stipend to conduct research in Dr. Charudattan's lab during the Summer 1999 term. She will then continue her research in the Fall 1999 and Spring 2000 terms. This award also provides for a research award of $500.

*__Ms. Linda Farr,__ a member of Dr. Charudattan's team, has also won the university scholars stipend. Linda will undertake research in her department, geology, and continue the research project in the following two terms.

Dissertations defended:

*__Dauri Tessmann__ successfully defended his dissertation on April 6th entitled, "Phenotypic and Molecular Characterization of *Cercospora* Species Pathogenic to Waterhyacinth." His committee was composed of the following professors: Dr. Charudattan, Dr. Kistler, Dr. Kimbrough, Dr. Berger, and Dr. Gallo-Meagher. Dauri is packing his things as we speak to return to Brazil. He has a faculty position at the State University of Maringa, where he will teach both general plant pathology and fungal plant pathogens. Dauri said that his research will focus mainly on controlling plant pathogens that affect vegetable production using chemical and biological control methods.

*__Patricia de Sá__ finished her Ph.D. dissertation on March 26th entitled, "Molecular and Serological Characterization of Watermelon Leaf Mottle Virus (WLMV)." Her research committee consisted of the following members: Dr.

Hiebert, Dr. Purcifull, Dr. Gurley, and Dr. Zettler. Patricia plans to pursue a post-doc position.

*__Yinong Han__ successfully defended her Ph.D. dissertation on April 8th entitled, "Identification of a Pea Pathogenicity Gene Cluster on a Dispensable Chromosome of *Nectria haematococca* MP VI." Her research committee consisted of Drs. Kistler, Hannah, Koch, Gabriel, and Kimbrough. Yinong plans to search for a post-doc position, but is undecided as to the specific location and research area that she will choose.

Pioneers of the "information age":

Daniela Lopes and **Gustavo Astua-Monge** were the first students in IFAS to successfully complete the electronic submission of their dissertations. For now, the submission of ETDs (electronic theses and dissertations) is voluntary; however, the possibility of becoming mandatory has been discussed.

Winners of the Graduate Student Forum:

*__Simone Tudor__ won 1st place with her presentation entitled, "Characterization of Bacteriocin Production by *Xanthomonas campestris* pv. vesicatoria."

*__Angela C. Vincent__ won 2nd place with her talk entitled, "Effects of Formulations of *Myrothecium roridum* and *Cercospera rodmanii* on Waterhyacinth (*Eichhornia crassipies*) under Greenhouse and Field Conditions."

*__Alvaro Ureña__ won 3rd place with his presentation entitled, "Assessment of Oversummer Survival in Strawberry Plant Debris of *Colletotrichum gloeosporioides* in Florida."

Congratulations to all of you!!!!!!

Traveling scientists:

*__Dr. R. Charudattan__ traveled to Raleigh, N.C. to present an invited talk entitled, "Current Status of Biological Control of Weeds" at an international conference, "Emerging Technologies for Integrated Pest Management: Concepts, Research, and Implementation." The Conference was organized by the College of Agricultural and Life Sciences, North Carolina State University, and sponsored by USDA-CSREES-Pest Management Program, NSF center for IPM, APS, Entomological Society of America, and others. The meeting was attended by about 250 scientists and representatives from universities, industries, governmental agencies and nongovernmental organizations (NGO's) of the United States and a few other countries. There were several excellent reviews of cutting edge pest control technologies. The conference provided a good overview of IPM efforts during the past two decades along with the perspectives of industrial, governmental and NGO scientists. The APS press will publish the proceedings of the conference. The information about this conference can be found at the web address http://ipmwww.nscu.edu/impconference

*__Dr. R. Charudattan__ also visited Viçosa, Brazil in route to the Federal University of Viçosa, Minas Gerais, to participate in Mr. Alan Pomella's Ph.D. defense. Many of you may remember that Alan did part of his Ph.D. research in Dr. Charudattan's lab and that he is the co-Chairman of his research committee. Dr. Charu said that he was challenged by participating in this event because Alan's dissertation and exam were in Portuguese. Dr. Charu could understand the basis of Alan's work, but the details of the discussion section were a little hazy. Dr. Charu was thankful that some of the committee members asked questions in English. Alan passed his exam and celebrated afterward with BBQ.

Undergraduate student's trip:

Several undergraduate students of our department went to the Apopka Research Center for a tour, this month. They also traveled to a state of the art ornamental nursery nearby.

Wedding:

Congratulations to Winnette and her husband, Jerone. They were married on Saturday April 24th at 5 o'clock at the Faith Tabernacle of Praise Church in Gainesville. The reception was held at the Westside Recreation Center right after the ceremony. Once again, congratulations and we wish you and your husband the very best in your marriage together.

Qualifying exams:

Our good friend Bob Kemerait successfully completed his qualifying examinations.

Congratulations, Bob!!

General Announcements

* The Gulf Coast Research and Education Center in Bradenton, Florida, in conjunction with the Florida Cooperative Extension Service, has scheduled a Vegetable Field Day for Tuesday, May 18, 1999.

AM

8:15 Registration.
9:00 Welcoming comments - Interim Center Director.
9:10 Complementary relationship between Agricultural Research and Extension - Dr. C. T. Waddill, Dean and Dir. of FL Cooperative Extension Service.
9:30 First Tour (choice of tour 1, 2, or 3).
11:00 Second Tour (choice of tour 1, 3, or 3).

PM

12:30 Lunch
1:30 Individual talks with faculty.

Three tours will be available: (1) Vegetable crop improvement, (2) Vegetable crop protection, (3) Vegetable crop production.

*Are you planning to use your "free summer time" for learning more about techniques you need to use in the lab? If so, you may want to take one or more ICBR workshops:

- Tools for developing molecular markers - May 3-7.
- Antibody application - June 21-25.
- Protein chemistry - July 19-23.

All workshops will be held at UF Campus, and the fee is $200 for students. An early registration discount of $50 applies for registering 4 weeks prior to workshop deadline.
For more information contact Teresa Stevens at 392-8408 or send e-mail to education@biotech.ufl.edu

* If you want to learn more about molecular biology in a hands-on course, you may want to enroll in AGG-5905 Molecular Techniques Laboratory. This is an intensive two-week course that will be taught for the first time in Summer B.

* Want to have a nice day with your friends of the department – outside the department? So come join us at the Ginnie Springs on May 15, starting at 11 a.m. If you have any questions, you can contact Bob Kemerait or any other member of the social committee.

Special seminar in our department

As we all know, Dr. Patricia Zambryski has accepted our invitation to present a seminar in our department on May 18. We asked Dr. Zambryski to write a summary of her talk for our newsletter, and she kindly did that. Here it is a sample of what she will discuss in this special seminar.

Viral and developmental clues into plasmodesmata function

P. Zambryski, Dept. of Plant and Microbial Biology, Koshland Hall, University of California, Berkeley, CA 94720

We approach the study of plasmodesmata (PD) by monitoring their function following two general types of provocation, either following infection with plant viruses, or following alteration in developmental programming.

Regarding plant viruses, we continue to use tobacco mosaic virus (TMV) as a molecular probe for PD function. In particular, we have focused on the movement protein (MP) of TMV. To date we have mapped 5 regions of the 30 kDa TMV-MP, C-terminal domains A and B define single strand nucleic acid binding activity, domain C is essential for proper folding, domain D at the very end of TMV-MP contains sites for phosphorylation by a plant cell wall associated protein kinase, and domain E specifies gating of PD. Our most recent work delimits a 6th domain, F, for cytoskeletal binding. We have initiated studies on the MPs of turnip crinkle virus (TCV). This virus is of particular interest since it infects *Arabidopsis*, providing a genetically tractable host system to dissect PD structure and function. In addition, TCV encodes 2 very small MPs, p8 (8 kDa) and p9 (9 kDa), that may provide a more precise localization of signal sequences for intra- and intercellular movement.

Regarding PD function during development, we have begun to address changes in PD function in the shoot apex of *Arabidopsis*. The availability of fluorescent markers that monitor symplastic movement, such as HPTS (8-hydroxypyrene-1,3,6 trisulfonic acid) makes these types of studies highly feasible. HPTS is loaded into the phloem and distributes symplastically to sites far from the site of initial loading. The fluorescent tracer is monitored by confocal imaging. We are particularly interested in determining symplastic domains in the shoot apical meristem during development. We have observed that the patterns of dye movement in the vegetative meristem becomes altered during the transition to flowering. Much research in the area of floral development has focused on the induction of genes, particularly transcription factors, essential for reprogramming the meristem to produce inflorescence and floral meristems. However, our studies suggest that intercellular trafficking via PD within the meristem also undergoes changes when flowering is induced.

An additional area of research involves our attempts to identify PD components by a genetic screen for mutations in *Arabidopsis* with altered PD trafficking patterns/size exclusion limits. For these studies we are screening embryo lethal mutants for embryos with altered PD size exclusion limits. One mutant ise-1 (Increased Size Exclusion limit-1) allows 11 kDa dextrans to move from cell to cell, while wild type embryos generally have a size exclusion limit below 3 kDa. The ise-1 mutant also exhibits morphological defects late in embryogenesis.
For review and additional references see:

McLean, G., Hempel, F., and Zambryski, P. Symplastic cell-to-cell communication in flowering plants. The Plant Cell, 9, 1043-1054 (1997).

Birthdays of the month

Prem Chourey	5/5
Polly Teele	5/7
Karen Owens	5/8
S. Chandramohan	5/20
Kate Tremper	5/26
Ernest Hiebert	5/28

Happy birthday to you all!!

Friday's coffee break

The labs in charge of the coffee break for the month of May are:

May 7 - Dr. Niblett's lab
May 14 -Drs. Simone's and Purcifull's labs
May 21 - Drs. Bartz's, Berger's, and Zettler's labs
May 28 - Dr. Hiebert's lab

Remember that on May 28 we will be celebrating the "birthdays of the month".

Important Dates

May 1st, Saturday: commencement.

May 4th, 5th: Florida Phytopathological Society Meeting.
May 7th, Friday: registration according to assigned appointments.
May 7th, Friday: last day to review supervisory committee. Corrected or revised supervisory committee forms for students graduating in summer should be submitted to the graduate school (288 GRI)
May 10th, Monday: classes begin, drop/add and late registration begin.
May 11th, Tuesday, 4:00 p.m.: Last day to drop/add, change sections, and late register.
May 12th, Wednesday, 4:00 p.m.: degree application. Last day to pay fees without being subject to late fees.
May 21st, Friday, 3:30 p.m.: deadline for payment of fees (S113 Criser).
May 31st, Monday: Memorial Day Observed. All classes suspended; all offices closed.

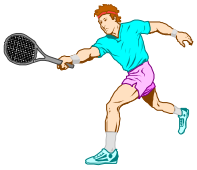
Who is Who in our Department

Dr. Kenneth Pernezny's Lab – Everglades Research Center, Belle Glade

The ERC, Everglade's Research and Education Center, is located in Belle Glade, Florida—the geographic hub of some of the most intensive vegetable production east of the Mississippi. Plant pathological research at the center is focused on the development of effective, low-input disease management programs. Dr. Pernezny's lab, which focuses on integrated pest management on vegetables and research on bacterial diseases, is the highlight of this month's Who's Who.

Dr. Kenneth L. Pernezny came into plant pathology through the back door. After earning his B.Sc. at Penn State, he spent five years teaching chemistry at a high school in Pennsylvania. Since he couldn't seem to get people to understand what a mole was (besides a furry little animal), he decided it was time to move on and melded his two interests, microbiology and botany, into a career in plant pathology. He received his M.A. at Lehigh University and his Ph.D. at Ohio State and is now working 60% extension and 40% research at the ERC. His major projects right now involve varietal and seed treatments for bacterial spot of lettuce, *Xanthomonas campestris* pv.vitians. Dr. Pernezny's lab is also working with bacterial spot of pepper, including copper tolerance and race profiles. His lab has completed and is selling the Florida Tomato Scouting Manual (be sure to pick up a copy!) and is in the process of producing a set of flash cards on diseases of tomato and pepper with Dr. Kucharek. In the fall, Dr. Pernezny plans to work with Dr. Lawrence Datnoff on biological control of Fusarium crown rot of tomato.

Dr. Pernezny isn't all work though—he plays drums in a Christian musical ensemble and he's a certified regional soccer referee. He also admits to playing "lots" of tennis with his family.



Janice Long Collins received her Bachelor's degree in Education from the University of Florida. She is thinking about getting her Master's in Information Technology and is currently a biological scientist in Dr. Pernezny's lab. She enjoys the variety in her work—from being in the lab doing microbiological work, to planning a presentation on the computer, to record-keeping, to working in the greenhouse or farmer's field in South Florida. Every day is a little different.

Outside of work, Janice is involved in her church (as a member, teacher and part of the choir!) and she is on the School Advisory Committee at Cypress Trails Elementary and the Education Advisory Board in Royal Palm Beach. This allows her to shape the educational experiences of her children, which she is very excited about. Janice is also involved in soccer through her son Zack and always ends up being team mom, which she enjoys. She also sews and does most any kind of needlework in her spare time.

Myrine B. Graham Hewitt is the senior lab technician in plant pathology in Dr. Pernezny's lab. She has four children who are all grown and living on their own with three married. Most of her spare time is occupied with church work. She visits sick and missing members, is church clerk and church leader, a Sabbath school teacher, and the Women's Ministry leader. Outside of work, she also enjoys gardening, cooking

and sewing. She spends time with her children and grandchildren and likes to see the looks on people's faces when she plays tricks on them!

Did you know that…

* Dr. Pernezny says "there's nothing like running up and down the field with a bunch of 14-year-olds to find your aerobic limits" in reference to his soccer experiences!
* Dr. Pernezny once considered organic chemistry for his Ph.D. but gave up when all he created in his organic labs was black tar!
* Janice is a voracious reader of all types of books. She has four children and is married to a firefighter!
* Janice also has a small zoo (besides the four children!) of a collie, a Miniature Pinscher, 4 cats, some fish and a parrot!
* Myrine has seven grandchildren and her youngest child is doing missionary work in Korea!
* Myrine also has a hobby of picking up pennies!

Visiting scientists and post-docs

Slobodanka Grsic-Rausch was born and raised in Novi Sad, Yugoslavia. Danka also earned both her B.Sc. and M.Sc. degrees at the Faculty of Biology College at Novi Sad University. Her bachelor's is in natural sciences with an emphasis on biology, while her master's was an investigation of the *in vitro* propagation of the apical meristem of hops. There was a need in her country to produce virus-free hop plants as viral infection both reduces plant yield and affects the plants' production of an alpha-acid, a necessary component in the taste of beer.

Danka earned her Ph.D. at Johan Wolfgang Goethe University in Frankfurt/M (West) Germany. For her dissertation, she investigated clubroot disease in crucifers and the role of auxins in clubroot development. (Incidentally, she met Thomas (Dr. Rausch) during her Ph.D. work). After her Ph.D., Danka did a post-doc at the same university in a neighboring lab working on carotenoid biosynthesis. Currently, Danka is a visiting scientist in Dr. Prem Chourey's lab trying to clone the invertase inhibitor from maize. When Danka returns to Germany, Thomas hopes to have her work in his lab, but she is not sure.

When Danka is not working in the lab, (and believe me, it's a rare occasion, because I've ridden my bike back to work many late nights and she hadn't left yet), she enjoys a few hobbies. Danka enjoys dancing (any type), growing flowers, and "balcony" gardening. She also likes to preparing exotic meals from different countries in which the arrangement of food is just as important as the taste. Danka also reads for at least five minutes before falling asleep every night. She particularly enjoys non-fictional, psychological and philosophical literature. She is currently reading *The Zen of the Art of Motorcycle Maintenance* by Pirsing. Danka said that she would also like to mention how much she is enjoying her time here in Florida. She said that the people here are so friendly and nice and that she loves the fact that she has met so many people from so many different countries here. She also loves the weather (I told her that she has never experienced a Florida summer!) I know that she is enjoying herself, but I can tell that she is missing Thomas ever since he has returned to Germany.

Best wishes to you, Danka;
it's good to have you here!!

Leisure and Culture

- Farm & Forest Festival: 10 a.m. – 6 p.m. Saturday and Sunday, May 1st and 2nd., at Morningside Nature Center, 3540 E. University Ave. Demonstrations, entertainment, food, crafts and wagon rides. Admission: $4 adults; $2 12 and under.
- Pioneer Days: High Springs celebration: 9 a.m. – 5 p.m. Saturday and 10 a.m. – 4 p.m. Sunday, May 1-2, from Railroad Ave. to 4th Avenue near Main St. in downtown High Springs. There will be a Heritage Village, Kid's Korrall, daily arts and crafts, entertainment and more.
- Gainesville Ballet Theatre: 25th anniversary celebration, with "Pas de Quatre", "The Glory of Gershwin" and "La Boutiwue Fantasque", at 2:30 and 8:00 p.m. Saturday, May 1, at the Center for the Performing Arts. Tickets: matinee: $10 all tickets; evening: $15 adults; $12 children, students, and senior citizens.
- Kid's Fest: Anna Moo, Magic by Rick, a yo-yo contest, science and art activities and more. 9:30 a.m. – 4:30 p.m. Saturday, May 1 at the Gainesville Woman's Club, 2809 W. University Ave. Admission: $3 (374-5060).
- "Nunsense II: the second coming": The musical comedy opens Friday, May 7 at the Gainesville Community Playhouse. Tickets: $9 at Omni Books.
- For the folks: Arlo Guthrie headlines the annual Gamble Rogers Folk Festival Saturday May 1 at the St. Augustine Amphitheater on A1A South, St. Augustine. The event runs April 30 – May 1. Among the performers: Robin & Linda Williams, Bill Wharton& The Ingredients, Jalapeno Brothers, and more. A weekend pass is $35, which includes all concerts and the Saturday and Sunday afternoon events (workshops, story-telling and more, 12 – 5 p.m. daily). Concerts begin at 7:30 p.m. Friday ($10) & Saturday ($15). Festival hotline: (904) 824-8965.

Cool Web sites

You've been using the Web to search for information related to your research for a long time, right? If you are not completely happy with the most commonly used search engines, you may want to try Google! Based at Stanford, the engine specializes in speed, relevance of hits, and it does a very nice job with scientific-related information. It's worth a try!! www.google.com/

Do you use Word and Excel software, but you know only the basic stuff? Are you interested in learning more about them? There are two web sites for newsletters for Word and Excel tips. The information that they provide is for both the novice and experienced user. WORDTIPS: http://www.dcomp.com/WordTips/ EXCELTIPS: http://www.dcomp.com/ExcelTips/. Both sites have samples of their newsletters that you can look at before you subscribe.

Are you up to some laughter? So check this out!!

Contribution: Mark Elliott

(A collection of documentation statements actually found on patient's charts during a recent review of medical records. These statements were written by various health care professionals including (we are afraid) doctors of two major hospitals).

* The lab test indicated abnormal lover function.
* The baby was delivered, the cord clamped and cut, and handed to the pediatrician, who breathed and cried immediately.
* Exam of genitalia revealed that he is circus sized.
* The skin was moist and dry.
* Rectal exam revealed a normal size thyroid.
* The patient had waffles for breakfast and anorexia for lunch.
* She stated that she had been constipated for most of her life until 1989 when she got a divorce.
* Between you and me, we ought to be able to get this lady pregnant.
* The patient was in his usual state of good health until his airplane ran out of gas and crashed.
* I saw your patient today, who was still under our car for physical therapy.
* The patient lives at home with his mother, father, and a pet turtle, who is enrolled in day care three times a week.
* Bleeding started in the rectal area and continued all the way to Los Angeles.
* Both breasts are equal and reactive to light and accommodation.
* She is numb from her toes down.
* Exam of genitalia was completely negative except for the right foot.
* While in the emergency room, she was examined, x-rated and sent home.
* The patient suffers from occasional, constant, infrequent headaches.
* Coming from Detroit, this man has no children.
* Examination reveals a well-developed male lying in bed with his family in no distress.
* Patient was alert and unresponsive.
* When she fainted, her eyes rolled around the room.

Recent Publications

Papers:

Bouzar, H., **Jones, J.B., Stall, R.E.,** Louws, F.J., Schneider, M., Rademaker, J.L.W., de Brujin, F.J., and Jackson, L.E. 1999. Multiphasic analysis of Xanthomonads causing bacterial spot disease on tomato and pepper in the Caribbean and Central America: Evidence for common lineages within and between countries. Phytopathology 89:328-335.

Hilf, M.E., **Karasev, A.V.,** Albiach-Marti, M.R., **Dawson, W.O.,** and Garnsey, S.M. 1999. Two paths of sequence divergence in the citrus tristeza virus complex. Phytopathology 89:336-342.

Kempken, F., Howad, W., and **Pring, D. R.** 1998. Mutations at specific atp6 codons which cause human mitochondrial diseases also lead to male sterility in a plant. FEBS Letters 441:159-160.

Tang, H. V., Pring, D. R., and **Chen, W.** 1999. The fertility restoration gene Rf3 and mitochondrial transcript editing are expressed in haploid sorghum pollen. Sexual Plant Reproduction 12:53-59.

Book Chapter:

Howad, W., **Tang, H. V., Pring, D. R.,** and Kempken, F. 1998. Anther atp6 RNA editing in cytoplasmic male sterile Sorghum bicolor lines. pp 131-134. *In*: Plant Mitochondria: From Gene to Function, Moller, I. M., Gardestrom, P, and Glaser, E., eds. Backhuys Publishers, The Netherlands.

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