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S. C. JOHNSON WAX Administration Building & Research Tower by Pat Arnett

Frank Lloyd Wright's S. C. Johnson Wax Administration Building and Research Tower are two of his most well known works. The structures are located on the same site in Racine, Wisconsin, but were designed and built ten years apart. The Administration Building was built in the late 1930's while the Research Tower was constructed in the late 1940's. These two buildings, designed in the later third of Wright's career, represent more than any of his other works, the architect's ideas about what a modern workplace should be. Both buildings utilize elements that embody Wright's philosophy of public buildings as structures that should insulate the user from the urban environment, while providing a more natural setting

inside through the use of structure and design. These buildings provide exterior light, from above the occupant, using an innovative system of Pyrex tubes developed specifically for the job. The massive "lily pad" columns in the Administration Building give a forest like feel to the workers below. Meanwhile the Research Tower, which is a fully cantilevered nine story structure of alternating square floors and round mezzanines, uses only one column at the center of the structure to produce a more open and less box-like feel to the researchers.

Both structures have experienced some problems in their lifetimes. The Pyrex windows in both buildings have leaked since they were new. Complaints of excessive deflection in the tower have also been common. More serious problems have occurred recently in

the research tower. At each floor level, a concrete knee wall rises five feet from the finished floor and is coped with a ribbon of casota stone. Above this ribbon, aluminum mullions carrying the Pyrex tubes extend to the bottom of the next floor. In



cont'd on page 3

RSA NEW PROJECTS by Andrew Ostmann

Not as Exciting as You Might First Hope... RSA is working in Monaco! Well, not quite. We are working on a conversion of Joe's Bijan project from almost twenty years ago, however. Joe will return to the scene of the crime to create a new flagship store for Club Monaco with Deborah Berke architects. Another "international" project is the conversion of the landmark building Hang Seng bank to the Chinatown Health Clinic. The building sits on a former canal, making for poor soil conditions (as if there were any other kind.) **Very, Very Somber Indeed...** RSA has several new Stern projects: residences in Seal Harbor, ME and West Tisbury, MA. The Paine Studio will be built in Nanucket, MA. Also with Stern, the Yonkers library has sprung back to life. This is the conversion of a former Yonkers Otis elevator plant (don't get any ideas, we won't be able to replace the one in this building) into a library and Board of Education building, plus a 90,000 S.F. Addition. **Walk the Plank, You...** RSA is doing several new plank projects in the Bronx. We will do two more Metzler Mandl projects for Atlantic Development, making a lucky total of seven. Also, RSA is excited to welcome some new Scandinavian faces to our client list! We have a plank job with Larsen, Shein, Ginsberg, & Magnusson, also in the Bronx. **Through the Looking Horn...** Two new projects with particularly unusual geometry are a new Alice Aycock sculpture and the Telyas residence. The sculpture will be supported by the terrace and tied back to the GSA building in Baltimore, and consists of two curved aluminum trusses (constructed by a roller coaster manufacturer) and an aluminum horn element. This project will be a joint NYC and DC effort. The four-winged Telyas residence with Steven Holl Architects has a unique landscaping motif. The land surrounding the building is divided into 11 sectors, each one of which corresponds thematically with one of the chapters in Alice in Wonderland. **Birds in White Labcoats, Academicians in Nightclubs...** RSA will be working with Hillier to design the new Cornell Lab of Ornithology. This building, located at the edge of Sapsucker Woods Bird Sanctuary will replace the existing observatory and visitors center. The building is designed to invoke the imagery of birds in flight. Another new RSA project involving an educational center is the conversion of the famed Small's Nightclub in Harlem into the Thurgood Marshall Academy. This project is with Gruzen Sampton Architects, and the client is Abysinnian Development Corporation (Rev. Calvin Butt's Organization.) *

NOWHERE TO GO BUT UP - BUT HOW? Memorial Sloan Kettering Cancer Center In-fill Infrastructure Project

By R. Santiago, E. Wilkowski, & J. Villano

The Memorial Sloan Kettering Cancer Center Infill Infrastructure Project is a four-story addition over two existing six-story buildings. The existing buildings have undergone a number of additions over the years, including the Roof Additions Project built in 1996-97 (also designed by our office) which will need to be demolished to allow for the proposed addition described herein. The current structure is already at the limit of its capacity, if not slightly over. In order to add the new structure, which will house state-of-the-art operating room, pathology, and pediatrics floors, as well as a mechanical floor, four "super-columns" are being threaded through the existing buildings. Each of the floors, due to its highly specialized nature, has its own architectural consultant, with Granery Associates being the overall project managers. One of the floor consultants, Vinoly Associates, will also be designing the new facade.

Two of the "super columns" mentioned previously are 10' by 10' towers consisting of four heavy W14 columns moment-connected to each other by W24's at each floor level. The other two "super-columns" consist of two W14's moment connected with W24's. Each tower threads through the existing structure 140' all the way down to rock. The lateral displacement allowance for these structures will be 3" (L/560) and be accommodated by a 3" seismic joint with the surrounding existing structures.

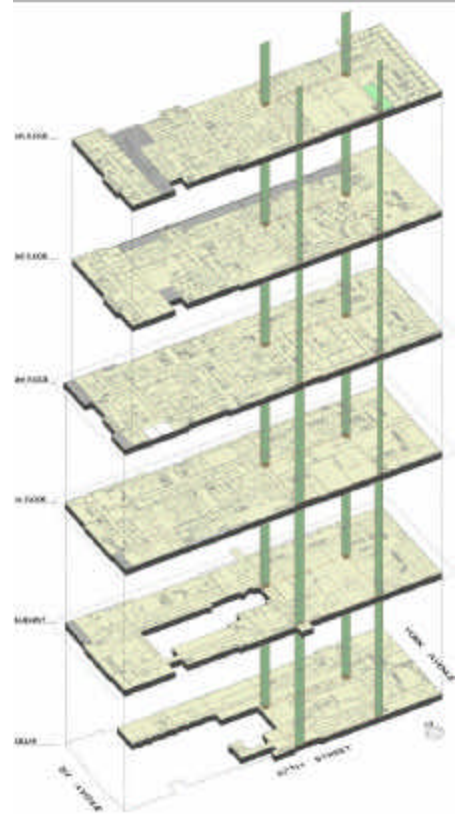
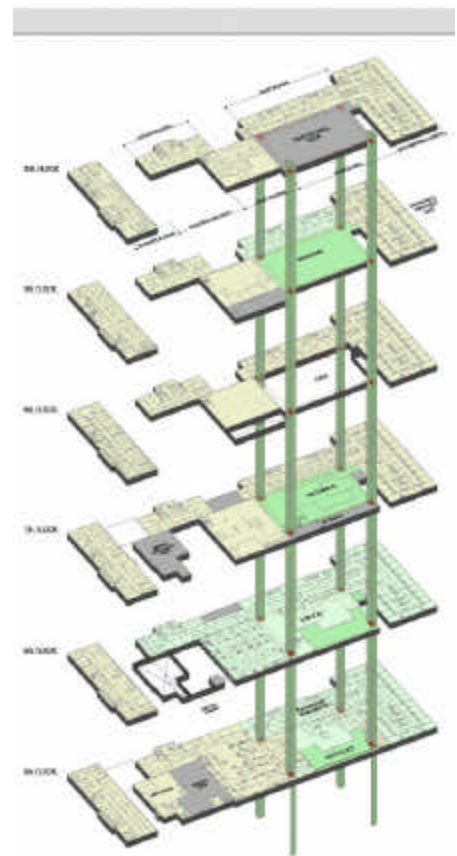
The towers described above are connected to each other by 160' trusses which will be 18' to 20' deep and span over the existing buildings which not only supports the gravity loads of the addition but also serves to laterally support the structure as a whole for seismic and wind considerations. Each truss' exact composition is not yet finalized. Current deflection exhibited in models is 2½' (L/768) but an acceptable range has been established as 3" max. The main concern when dealing with such enormous spans, especially in an environment where precision is literally a matter of life and death, is vibrational ramifications. Several schemes are being examined to combat this problem such as the use of normal weight concrete instead of the more typical light weight concrete used in most new construction. The sheer mass of the concrete tends to dampen

vibrations over long spans. While this alone will not necessarily eliminate the problem, when coupled with other measures such as designing the filler beams specifically with vibrational sensitivity in mind, bringing in acoustic specialists for consultation, etc., the problem will be reduced to an acceptable level. More appropriately, it will be reduced to an "imperceptible" level which will allow the spaces to be used as surgical suites, with no compromise to patient safety.

A 9' interstitial space, accessible via catwalks, between the operating room ceiling and the mechanical floor will allow for state-of-the-art ultra clean laminar air flow equipment to be installed in the O.R.s to minimize risk of post operative infection. The interstitial space allows for the servicing of this equipment and the air filters without opening the ceiling in these "clean rooms".

Why design such an extreme structure? As stated previously, the current structure has reached full capacity due to earlier expansions and additions. Further, due to the inherently disruptive nature of the process of structural reinforcing (this is a working hospital and research center with the current surgical suites being on the second, "clean", floor which cannot be disturbed by construction and the ensuing debris), it was deemed unacceptable to attempt to reinforce the existing structure to allow additional space to be supported in this manner. It is for this reason that it was decided to design a structurally divorced addition to the existing buildings. During construction, only minimal disruption of the areas surrounding the insertion of the "super-columns" will occur. Relocating occupants of the existing floors while maintaining the working environment necessary to still function as a medical institution, will be a feat in and of itself. Many construction issues arise just from relocating and maintaining hospital services, but this will be much more manageable than the full-scale evacuation required to reinforce the existing structural system which was not an option.

However, the measures detailed here, come at a high price. The construction budget alone is estimated at \$79 million, with a total project cost, including fit-out of all medical equipment, is \$124 million. Based on an additional square footage gained in this venture of just over 50,000 square feet, this project will cost over \$2500 per square foot. *

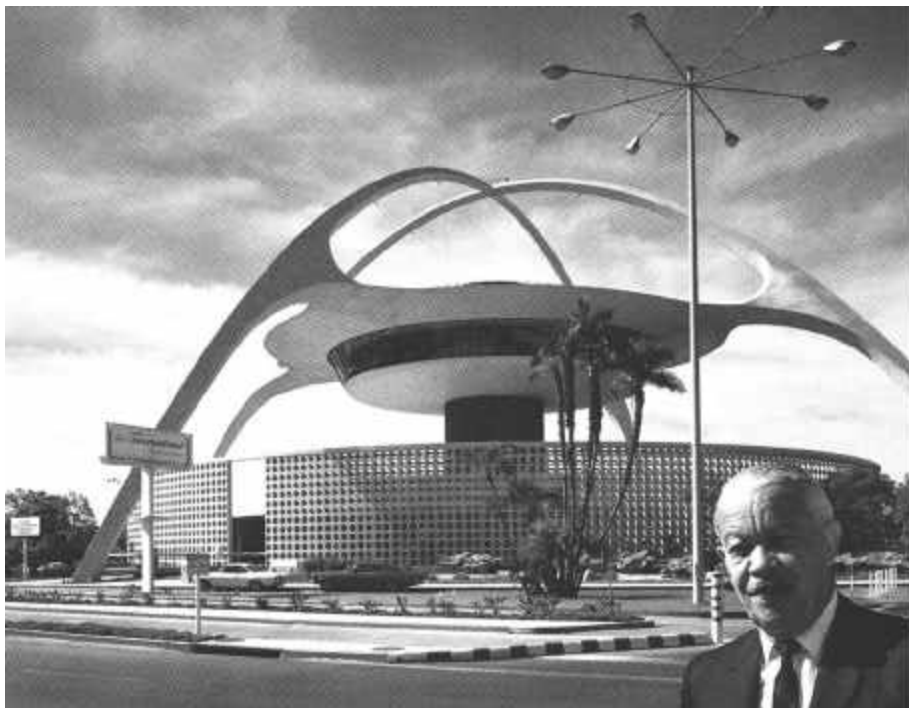


FOCUS ON ARCHITECT**In celebration of Black History Month, February, we salute Paul R. Williams**

by Cheryl Spencer

Paul R. Williams was born in Los Angeles in 1894. He studied at the Los Angeles atelier of the Beaux Arts Institute of Design and at the University of Southern California. In a career spanning six decades (the 1920's through the 1970's), Mr. Williams designed or added to 3000 projects, including some immediately recognizable works, such as The Theme Building at Los Angeles International Airport (pictured), the Beverly Hills Hotel, and Los Angeles' Shrine Auditorium. He designed so many homes for celebrities, 300 in Beverly Hills alone, that Williams came to be known as "The Architect to the Stars." Bill Cosby, Frank Sinatra, Lucille Ball, Michael Landon and Denzel Washington are a few of the stars who have lived in "Paul Williams houses."

A Los Angeles native, Paul Williams was familiar with the Southern California styles of Architecture, but he was equally adept at designing in the English Tudor, Colonial, Georgian and modern styles which came into vogue during his long career. Given the weather in L.A., most of the people there appreciate airiness and spaciousness in design; therefore Williams designed most of the houses around gardens. PRW (as Williams was called) believed in considering the lifestyle of an individual when designing a home. He designed Cordhaven, a residence for E.L. Cord, a wealthy automobile manufacturer and social figure in L.A. Cordhaven was a colonial style home with 16 bedrooms, 22 baths, a pool house, and stables. It became the center



of Beverly Hills social activity during the 30's and 40's.

Williams was as concerned with affordable housing as he was with expensive mansions, and after World War II he designed a number of low income housing, such as the Del Rio Public Housing in L.A. One of his techniques was to view a site, select the best view, and make that the livingroom. In addition, he used restraint in ornamentation, because he felt that ornaments dated a structure, and that traditional styles would last if you gave them a more modern appearance by simplifying them, streamlining them, using some circular forms and curves, and incorporating some free-flowing spaces. Throughout all of the different styles and building types he designed, Williams became especially noted for his perfectionism and attention to detail.

In addition to homes, Paul Williams designed schools, churches, health facilities, country clubs, banks, department stores, airports and public buildings. He eventually had offices in New York, Paris, Colombia, South America, Washington, D.C., and L.A.

Williams was the first African-American Fellow of the American Institute of Architects. He was appointed to the first City Planning Commission of Los Angeles, as well as, to the National Monuments Committee by President Coolidge.

A contemporary and ardent admirer of Frank Lloyd Wright, Paul Williams completed his own sizable volume of work in an extremely segregated society. Williams stated that the difficulties he had to overcome due to racism, made him better at his craft. He died from complications of diabetes in 1980.*

Johnson Wax *cont'd from page 1*

the winter of 1980, a section of the casota stone in the northwest corner of the tower at the 8th floor level displaced ¾" away from the building. The problem was stabilized, but in the winter of 1998, again in the northwest corner of the structure at the 5th floor level, the corner mullion and casota stone completely detached from the building, leaving them hanging only by the Pyrex tubing. In addition to these problems, some of the trademark columns in the carport which lies between the two structures are showing signs of deterioration. Because of these problems, Robert Silman Associates was contacted to investigate.

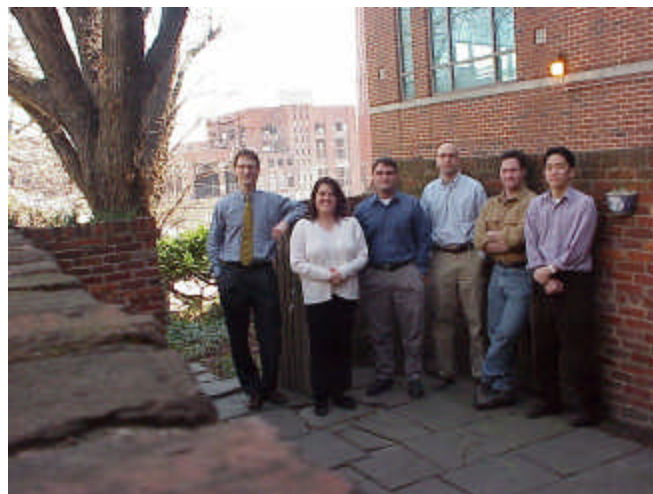
There were a number of suggested possibilities for the failures in the northwest corner of the Research Tower, including excessive settlement, wind forces, poor connections at the top of the knee wall, and excessive lateral deflection. All possible causes for the failures in the tower corner are being investigated. Several finite element models are being used to look at the behavior of the massive foundation for the cantilever, the deflections and forces in the structure due to gravity loading, as well as the response of the structure, specifically the mullions, to various wind loadings. The condition of aluminum mullions which has clearly deteriorated in at least some of the tower, is also being examined metallurgically, to determine if their interaction with a copper u-bolt is causing galvanic corrosion. The connection of the casota stone to the top of the knee wall is also being considered. In the carport, structural drawings are being examined to establish the capacity of the unique columns. The possibility that water is infiltrating the partially hollow columns and causing the damage is a likely explanation.

Before final conclusions are reached on how best to repair the problems and how to prevent future ones, more investigation will have to be done on the causes of the structural problems. *

RSA-DC NEWS FROM DOWN SOUTH BY RSA-DC STAFF

Now that the two newest engineers are settled into our office here in Washington, we wanted to let you get to know them a little better.

Paul Auerbach grew up in the suburbs of Washington, DC., and he attended the University of Virginia where he studied anthropology until he realized that engineering was his truer calling. Thus, he completed his Bachelors in civil engineering there, and then pursued his Masters at the University of Illinois at Urbana-Champaign. He settled down in Chicago for a year of work at SOM, until moving to Seattle in order to work at Boeing. In Seattle, he put together a softball team for the Seattle League and coached them to the championship. Despite his athletic success out West, Paul has come full circle by finally joining us at RSA because he is back in Washington and doing structural work. He loves photography, and plans on coaching our own softball team to victory...once we have hired 5 more players!



From Left to Right: Kirk Mettam, Lisa Clarke, Kevin Miller, Paul Auerbach, Brandon Rossetti, and Ken Tan

Kevin Miller was born in Peoria, Illinois, and completed both his Bachelors and Masters in Civil Engineering at the University of Illinois at Urbana-Champaign. If you have noticed an Illinois trend here, thank Pat Arnett, who informed Kevin about the company and encouraged him to apply for a job at RSA. In between his Bachelors and his Masters, Kevin worked at Doyen and Associates, Inc., in Chicago. Kevin loves to ride bikes and to hike, and feels that doing these activities on the various nature trails around DC will be an improvement over the flat terrain of Illinois. Photography and playing his guitar, particularly the music by The Mountain Goats (that is the group, not the animal), are other ways he enjoys spending his time. *



Kelly showing Peter the ropes at a climbing lesson with Vertical Access in Ithaca, NY this January.



RSA
Softball
Season
starting
soon!
See Mark
Maghakian
for details.



Successful Blood Drive
thanks to Tim Lynch
who organized and
encouraged everyone to
participate. On March
7, 2000, 30 pints were
collected-we exceeded
our target amount!

Give the Gift
of Life!

JOHN MATTEO RECENT TRIP TO

PITTSBURGH John gave a presentation at the Pittsburgh Chapter of the ASCE's Forum - *Fallingwater: Strengthening a Work of Art* - "Frank Lloyd Wright's Fallingwater, a masterpiece of American residential architecture of the 20th century, has enjoyed much of its well-deserved acclaim despite significant structural problems which manifested themselves almost immediately during its construction in 1936. Large cracks opened up in the terrace parapets and large deflections were apparent where the living room and master terrace daringly cantilever over Bear Run. The initial work of Robert Silman Associates, P.C. at Fallingwater made a comprehensive analysis of the structure based on historical documentation corroborated with field survey, a finite element computer analysis, as well as non-destructive testing methods including impulse radar, ultrasonic pulse velocity and metal detection. The analysis showed that the structure was significantly overstressed and required strengthening. With the consultation of Schupack Suarez Engineers, Inc., a post-tensioning reinforcing scheme was developed to strengthen the main cantilever while maintaining the outward appearance of the home, thus preserving both the structure and the possibility for its appreciation by its many visitors in the years to come." *by John Matteo **



**SEMINAR SUMMARY:
Structural Welding - Design
and Specification**

by Pat Arnett

Late last year I had the opportunity to get out of the office for the day and trek to Midtown to attend a seminar on structural welding given by Robert Shaw, President of the Steel Structure Technology Center. Mr. Shaw is a member of four different code committees in the American Society of Welding, serves

OFFICE TIPS - MicroSoft Word *by Stan Caceres*

When you create and save a new Microsoft Word document and you or someone else opens it in a computer other than the one it was created on, do [blue text and underlining](#) suddenly appear on the document?

Well here's a very easy solution so that this doesn't happen ever, ever again. I'd like everyone to do this so we have no problems in the future.

The reason this happens is because MS-Word is set to "Revision Marking" by default. What this means is that it will track all changes you make in a document, and when it's opened on another computer that has "Revision Marking" on, all new or changed text will show up in a different color, with underlining.

To turn off revision marking:

Start-up MS Word and open a new blank document.

Go to the "Tools" menu

Click on "Revisions"

All check boxes should be UNCHECKED (no check marks in them)

Click okay.

That's it, and you save yourself future headaches.

Any questions please direct them to my attention. *

AUTOCAD DEPARTMENT TIDBITS /UPDATES

MARCH 2000 *by Mark Maghakian*

The latest version of Autocad, the 2000 release, has not yet caught on with clients. As of this writing, there were only a few clients using this version. The downside of us switching to ACAD 2000 would be that when we send files out to an architect, we would have to save the files as release 14 drawings. Autodesk is no dummy; they want you to purchase the newest version of their product. You can't open a R2000 cad file using release 14. The revised prototype drawings have been set up in the "Proto" directory in the j: drive with all of our revised layers and colors...I hope to have the manual complete by the time you read this. There is also a drawing in the proto directory called "rsalayer.dwg", that drawing is good for using a cad file that have been revised from an architectural drawing, and does not have our layers set-up in it yet. You can insert this file into the drawing and all our layer, font, and dimension properties will appear. The revised .pcp files have been complete for both the laser and Xerox 8830 machines. It seems that everyone is getting the hang of it..I know that going back and forth between .pcp's can be a bit of a pain, especially when you sometimes forget to switch, but it will soon become second nature. Another reminder to everyone would be that when sending cad files to a client, always remember to send any x-refs that might be referenced into that particular file as well as the fonts and .pcp files..until next time, remember to be careful when using the erase all command...*

on the AISC weld specification committee and has also been working with researchers trying to solve some current welding problems.

The seminar focused on several main topics. First, a comprehensive review of the 1996 restructuring of the AWS code was presented. The alteration caused the code to work much differently then it had for many prior. Then, Shaw moved beyond the code to share his knowledge of good detailing practice in a number of design situations. Several current topics of interest in welding research and design

were also discussed including "k-zone" issues and the behavior of welded moment connections in the Northridge earthquake (a subject near to my own heart). At the end of the seminar, several short lectures on welding were presented, that related to specific topics. These included retrofitting existing structures, seismic design, fabrication, and inspection.

If you have any questions about the seminar or would like to look at the material provided, feel free to stop by and discuss. *

STAFF BIO: Fred Elsasser by Brian Maloney

There are some in the office that will never forget him, and with RSA's recent, rapid growth there are some in the office who barely know him. Fred Elsasser has spent the last twenty years helping to make Robert Silman Associates the success that it is.



In a career that has spanned almost half a century, Fred has had the opportunity to get involved with a wide variety of projects. Fred enjoyed working on projects of both national and international significance, from the construction of an entirely new city in Iran, to the National Gallery of Art in Washington, D.C. with architect I. M. Pei.

Fred began his career with a stint in the U. S. Army, which allowed him to see post-war Europe and also helped to pay for his schooling at the University of Illinois, where he studied Architectural Engineering.

When he completed his schooling, Fred moved into the private sector, working for Skidmore, Owings, & Merrill. He later worked for Weiskopf & Pickworth, J. G. White, and Skilling, Helle, Christiansen, & Robertson before coming to RSA.

Through the span of his career, Fred said that he can see a definite shift from more simplistic building designs with repetitive bays to more complex building layouts requiring a greater amount

of analysis on the part of the engineer. He sees this as the result of changing trends in architecture and as the result of increased technology becoming available to the engineer, enabling the engineer to perform more complex analyses more quickly. In addition, the introduction of CAD has allowed quick changes to take place "on the fly" after a design has already been completed. Fred seemed to have mixed feelings about this aspect of change. While CAD is far more efficient and allows for a uniformity that is definitely desirable, hand-drafted drawings have an element of character that seems lost in computer-generated drawings. Fred does agree, however, that the technological progress that has been made has been just that: *progress*.

Since Fred has taken his leave of our office, he has definitely kept busy. He's been reading a lot (John Grisham, John Irving, ...) cooking, (he made red macaroons for Valentine's Day), and exercising (mostly biking). He still stops in at the office on occasion, so for those who never knew him, say hello. *

NEW KIDS by Ellen Blumenthal**Matthias Beckh**

Matthias was born in Munich a quarter century ago, and grew up in a small Bavarian village south of Munich, Germany. After 5 years of studies in structural engineering at the Technical University in Munich, combined with architecture and art history, Matthias earned his diploma this past November.

He has done several internships in architectural firms and engineering studios in Germany and Argentina. Besides German, he speaks Spanish, some English and French. He doesn't have a girlfriend at the moment. Matthias enjoys many different hobbies, including photography, literature, sailing, and rock climbing.

"I think in the matter of architecture or engineering, I am still a little bit indecisive and vacillating. Maybe I would like to combine both, somehow, someday? But I am very happy right now that I can work in an engineering office which has also a high demand on architecture."- Matthias

Amy Hwang

Amy was born and raised right here in our very own - The Bronx. She went to Stuyvesant High School, some of you know the place. For college, she attended MIT, earned her Bachelors and stayed at MIT for a Masters in Engineering. Amy's past work experience includes an internship at Goldstein Associates and 1-1/2 years experience at DeSimone Consulting Engineers before we were lucky to get her here at RSA.

Her work-related interests include reading or flipping through architectural design magazines or books, and wherever she visits, she's usually more interested in the architecture of the place than anything else.

Personal interests: Amy is very active in her church. She likes to fence, play Ultimate (Frizbee!), play basketball, and snowboard...(not all at once though, she says). Nope, no significant other at the moment, no pets...allergic to cats and has a phobia of birds.

Steve Cannizzo

Steve is a native Long Islander, born in Elmont, and currently, living in Bayridge, Brooklyn right by the Verrazano Bridge with his girlfriend, Jennifer.

He studied Civil Engineering at Manhattan College. Before joining RSA, he spent 18 months at Thornton-Tomasetti Engineers, and before that, he framed houses on Long Island and worked for a small public works construction company.

Steve's personal interests include household repairs, working with wood, and cooking French and Italian food. In the past year he has been quite productive with his woodworking. He has put a new maple wood, cutting board counter in his kitchen, created a wood dowel wine rack, a wood tool box for his car, a table for his bathroom, and he refinished a 40 year old 200 lbs. solid oak butcher block that he got from Jennifer's great uncle. He also refinished an old coffee table that is now in his living-room. *

RSA PROJECTS IN THE NEWS by Ellen Blumenthal*Carnegie Hall's Third Stage (Zankel Hall)*

Carnegie Hall Restoration and the Third Stage Addition, New York, NY (as reported by David Dunlap of *THE NEW YORK TIMES*, January 30, 2000).

Currently RSA is performing the structural design of a new multiple use 650 seat performance space below the main concert hall. Significant rock excavation is necessary to enable orchestra level installation. While this is being done, the main auditorium floor is being supported by temporary steel shoring. It includes new balconies, stage and accessory spaces. We are also addressing the need for sound isolation from the main hall and the subway to the new performance space. In the late 1980's *RSA* participated in the restoration of the interior of the main hall including new stage shell, lighting tiara, stage and seating in the at-grade lobby, plus installation of elevators to ADA compliance regulations. At that time we also did repairs to exterior masonry, including replacement of terra cotta, brick and stone, and the repair of severely corroded structural steel behind brick using a novel method of concrete encasement. Other projects there included a new marquee replicating the original design and the repair of sidewalk vaults.

The new Third Stage, Zankel Hall, is expected to be completed in April 2002.

West Village 11 story structure at 123 Perry Street is being developed as a vertical expansion of an existing building in this historic neighborhood. It will include a mixture of duplex apartments with skylights, condominium lofts, commercial and retail space with shops and a restaurant. The facade of the first 2 1/2 floors will be the original red brick, and the original second floor circular window will also be kept. *RSA*, the architect, Lee Harris Pomeroy, and the developers are making efforts to preserve what they can of the historic nature of the building while the new construction is designed to be compatible with the surrounding structures. (see *NY TIMES Real Estate Section*, March 5, 2000).

Engineering News Record

December 20th, 1999

Best Projects

Radio City Music Hall (architect: Hardy Holzman Pfeiffer) Comprehensive restoration and transformation of the hall into state of the art broadcast facility. (See last issue for more detail)

New Plant Studies Center at NY Botanical Garden (architect: Polshek Partnership) New 5 story 80,000 sf concrete structure houses the largest collection of preserved plant specimens in the world. It includes the addition of a new wing to the Beaux-Arts Museum building, with new entrance lobby & exhibition space for the lecture hall, conference facilities, 9 research rooms and a new library. The infrastructure of the Plant Studies Center was designed to protect and preserve the collections with a state of the art computerized environmental control system to regulate humidity and temperature, which ensures preservation and proper atmosphere.

New York Construction News

February 2000

Vassar Library (architect: Hardy Holzman Pfeiffer) The Martha Rivers and E. Bronson Ingram Library, a new 30,000 sf addition to the existing Thompson Library, is currently under construction. Besides the interior restoration and modernization of the existing structures, the overall plan was to blend the original building and earlier additions with the new construction, integrating the functionality and blending the architectural aspect of all of them into a single cohesive facility. Throughout the multi-phased design and construction which involved temporarily moving the collections to an annex building, the library has remained operational. *RSA's* Robert Santiago is quoted, commenting on structural problems and innovative solutions.*

BOWLING PARTY

by Mark Maghakian

On Wednesday, January 12th, we had our highest turnout ever for an RSA bowling bash !!!!.A record 24 bowlers had a great time competing, having fun, listening to good tunes, and of course, drinking beer. I have always felt that this was a fun office bonding experience and I'm glad that we had a nice turnout...Expect another bowling bash in the Spring with hopefully an even higher turnout...some of the high rollers were Pat with a 162, Mark with a 187, Laura with a 139, Peter with a 141, and Nat with a 147....

UPCOMING EVENTS - 2000 *compiled by Pat Arnett*

March 21	Art of Bridge Design
March 23	Roof Structure
April 3	Rem Koolhaus @ Columbia University
April 6	RAM Finite Element Based Analysis
April 8	Terra Cotta Seminar (see details below)
April 14	Business of Design & Construction Part 3: Public Relations
April 26	Municipal Engineers Lecture on a Major Tunnel Project
May 11	Business of Design & Construction Part 4: Administration & Management featuring Richard Tomasetti

POSTED SEMINARS & EVENTS

There is now a calendar of events in the public folder on Outlook which lists locations and topics of upcoming lectures, seminars, conferences, etc. For more detailed information on the events, people should refer to the bulletin board outside the 10th floor kitchen near Ed Wilkowski, or ask Deb McGuinness or Pat Arnett. *

MORE UPCOMING EVENTS: *compiled by Noel Ocampo***THE USE AND PRESERVATION OF ARCHITECTURAL TERRA COTTA**

Presented by:

THE NEW YORK LANDMARKS CONSERVANCY

Date: Saturday, April 8, 2000

Time:

8:30am - 5:00pm

Registration: \$50 Professionals, \$25 Students

Where: Columbia University

Avery Hall, Wood Auditorium 1172 Amsterdam Avenue

ALSO: Bob is on the lecture circuit in the next few months; April 27 in Bath, England, at the Happold Memorial Trust conference on Widespan Structures; May 5 in Philadelphia at the National AIA Convention (talk on Fallingwater) and May 8 in Philadelphia at the National ASCE Structures meeting (talk on Fallingwater).

Coming soon: "Spring Bowling party" Contact Mark for more Details...

Coordinators Notes

Coordinator: *Ellen Blumenthal*Layout: *Alastair Elliott, Ellen Blumenthal*Title R. Essay: *Jim Villano*Proofreading: *Lisa Clarke & Kirk Mettam*Contributors: *RSA & RSA-DC Staff***OFFICE CORNER***compiled by Noel Ocampo***"BIRTHDAY CORNER"**

(between 3/15 & 6/14)

Ellen B	May 29
John G.	May 16
Kelly N.	March 28
Margo P	April 20
Noel O.	March 23
Rick N.	March 16
Bob. S.	May 19
Stan C.	March 24
Sofya L.	May 31
Tony C.	March 26
Deidre K.	May 7
Farzana M.	March 29
Edward W.	May 1
Jay R.	May 7
Pat A.	April 19
Steve C.	May 4
Andrew O.	April 1

Happy Birthday to all!!!

RSA ANNIVERSARIES THIS YEAR

15 years:

Kelvin Brown

Vincent Tyson

5 Years:

Deb

Alastair

Ellen

Mike M

LET'S ALL CONGRATULATE

Passing PE Exam

Alastair

Mike A.

Getting Married
(not to each other)

Ed W.

Deb M.

LET'S ALL WELCOME!!!

Amy Hwang

Steve Cannizzo

Matthias Beckh

RSA-DC Office Newcomers**Welcome!**

Paul Auerbach

Kevin Miller