

# the news



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PHILADELPHIA SECTION

AMERICAN SOCIETY OF CIVIL ENGINEERS

P. O. Box 58186, Philadelphia, PA 19102-8186

Electronic Message Hotline: (215) 687-7741 (24 hours a day)

Vol. 66-5

## Our 80th Year

March, 1994

### MARCH DINNER MEETING

Philadelphia Section, American Society of Civil Engineers

**TUESDAY, MARCH 8, 1994**

FISHER'S RESTAURANT, 7310 Castor Ave. (North of Cottman Ave.), Northeast Phila.  
(Parking available on the street and rear parking lot) • See Location Map on Page 2  
Cocktails – 5:30 PM      Dinner – 6:30 PM      Meeting – 7:30 PM

**SUBJECT: THE EMPLOYEE TRIP REDUCTION PROGRAM IMPLEMENTATION STRATEGIES FOR THE PHILADELPHIA REGION**

**SPEAKER: JAMES RUE**, Regional Director, PA Dept. of Environmental Resources (PaDER)

The Employee Trip Reduction (ETR) program is a controversial element of the Clean Air Act. The program dictates that measures must be taken to reduce the number of vehicular trips in major metropolitan areas, wither through use of public transit or carpooling. Average vehicle occupancy figures will be developed for each metropolitan area and employers will be compelled to comply with guidelines to reduce perks such as company cars and free or subsidized employee parking which promote the use of single occupant vehicles (SOV's). The effort has sparked severe criticism and controversy in a society that envisions driving as a right, not a privilege.

Mr. Rue will explain the thrust of the program, its goals, successes and pitfalls, and the means by which it will be implemented. He will additionally outline the engineering and technological aspects of the program and will show how PaDER expects to begin the program in the Philadelphia area.

#### **SPECIAL FEATURES: Presentation of Life Membership Certificates**

##### **University of PA and Swarthmore College Night**

The ASCE Student Chapters, Alumni and Faculty of the Civil Engineering Departments of the University of PA and Swarthmore College will be honored at this meeting. All Students, Faculty and Alumni are cordially invited to attend.

Cost: \$18.00 per member or guest; \$9.00 ASCE Student Members

**RESERVATIONS ARE REQUIRED.** Please send your check for the number of attendees @ \$18.00 (members or guests) or \$9.00 (students), payable to Phila. Section, ASCE, P.O. Box 58186, Phila., PA 19102-8186; or call the Electronic Message Center, (215) 687-7741 (open 24 hours/day). **Deadline for reservations is Friday, March 4, 1994.**

### SECTION SCHOLARSHIP FUND

Applications are now being considered for the 1994 Phila. Section ASCE Scholarship Awards. Two scholarships, each worth \$2,000, will be awarded to aspiring civil engineers who attend one of the six colleges within the Section's jurisdiction (Drexel, U of Pa, Swarthmore, Temple, Villanova and Widener).

A candidate must be an active member of the ASCE Student Chapter at his/her particular college. He/she must be a matriculant in a full-time civil engineering program and must have com-

pleted at least two full years of the program to be considered. (Candidates may submit applications during their second year.)

Details are available from the Faculty Advisor of the ASCE Student Chapter at each involved college. Applications must be returned to the Faculty Advisor by **March 15, 1994.**

The two scholarship recipients will be cited at the Section's Annual Spring Social/Dinner Dance and Awards Night (**Sunday, May 15, 1994**) and will receive two complimentary tickets to the Social.

### TECHNICAL GROUP ACTIVITIES

#### **Geotechnical and Environmental / Water Resources Groups**

(Combined Program for 1993-1994)

#### **March Meeting (Rescheduled)**

Date: **Tuesday, March 15, 1994, 7:00 PM**

Location: Hill Seminar Room, LeBow Engineering Center, Drexel University, 31st & Market Sts., Philadelphia, PA

**SPEAKERS: Kevin Magerr**, US EPA Region III, Philadelphia

#### **SUBJECT: NPDES Storm Water Permitting Requirements for Industry**

The National Pollution Discharge Elimination System (NPDES) has traditionally covered wastewater discharges from industrial and municipal treatment plants. Such facilities have been permitted to meet technical and water quality standards primarily through the use of end-of-pipe technology. With the passage of the NPDES Storm Water Rule, runoff from industrial sites is now subject to permits as well. Although industrial stormwater must comply with the same standards as conventional permits, the control measures are different. The permits rely heavily on pollution prevention through "Best Management Practices" rather than end-of-pipe. The presentation will examine the permit process, focusing on the "Storm Water Pollution Prevention Plan" typically found in NPDES storm water permits.

For further information, please contact: **Dr. J.P. Martin**, Chairman, Geotechnical Group, Dept. of Civil & Arch Eng., Drexel University, Phila., PA 19104, (215) 895-2363 or **Mr. Raymond Lees**, Chairman, Environmental/Water Resources Group, Groundwater Technology, Inc., 223 Wilmington-West Chester Pike, Chadds Ford, PA 19317, (215) 558-1730.

#### **Structural Group**

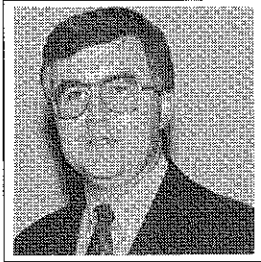
##### **March Meeting**

Date: **Thursday, March 17, 1994, 7:00 PM** (Rescheduled due to bad weather)

Location: Rohm & Haas Room #242, LeBow Engineering Building, Drexel University, 31st & Market Sts., Phila., PA

(Continued on Page 2)

# THE PRESIDENT'S MESSAGE



It's amazing how nature works. In one day one entire section of our nation is pounded by severely cold weather, snow and ice, while another experiences a disastrous earthquake. And even with all the technology we have developed, and with all the modern tools we have available, we can neither accurately predict the severity of these occurrences nor fully prevent their terrible effects.

But we have come a long way in the past twenty to thirty years. We have the capability to observe weather patterns as they form and therefore we can know at least a few days in advance how bad things could be, and have a worst-case scenario of what to expect. Our understanding of how the earth moves helps us to design structures, bridges and buildings to withstand quakes to a limited degree.

As an engineer I watched the news coverage of the aftermath of the earthquake and felt a little pride. Yes, some bridges and buildings collapsed, but many more survived with limited damage. The relatively low death toll from such a strong quake, coupled with the swift response to problems and quick fix-type remedies implemented for many of them, are in some small way tributes to the civil engineering profession.

Hopefully, the frigid weather and ice are gone, and the earth will not move so violently for a while. But at least these catastrophes will enable us to learn a little more about nature and how we can design to deal with the unpredictable forces as best we can.

On the lighter side, I have been advised by some of you that I have already exhausted my supply of quotation marks for my term. I guess I can't use any more quotes in my remaining President's Messages. I'll try to continue on under these terms! (Apostrophes don't count, do they?)

The Geotextile Seminar registration remains open, but I'm told that the spaces are filling fast. If you haven't reserved your place, and you want to attend, it would be a good idea to send in your check now to avoid being left out.

I also hope to see some new faces at our Northeast meeting. You asked for it in the membership survey last year, so now you're getting it. We'd like to make this a regular stop in our traveling road show program, so let's try to make it a success. (Notice I didn't use any quotation marks around traveling road show!)

A friendly reminder — please don't forget to send in your dues, if you haven't already done so (both National and Local). Thanks to all of you who continue to support us through payment of your Local dues. If you don't, National will send you a not-so-friendly reminder at the end of March that you could be removed from the membership roles.

As always, please feel free to pass along contributions, ideas, suggestions, and the like to help the Section serve you better.

Sincerely,  
 Bob Wright  
 President, Phila. Section ASCE

## TECHNICAL GROUP ACTIVITIES

(Continued from Page 1)

**SPEAKER:** Joseph P. Welsh, P.E., Vice President, Hayward Baker

**SUBJECT:** Innovative Foundation Systems for New and Remedial Construction

Mr. Welsh's slide-illustrated presentation will focus on how foundation problems in the Delaware Valley have been solved using various Ground Modification techniques.

(Continued on Page 5)

### PHILA. SECTION, ASCE OFFICERS 1993-1994

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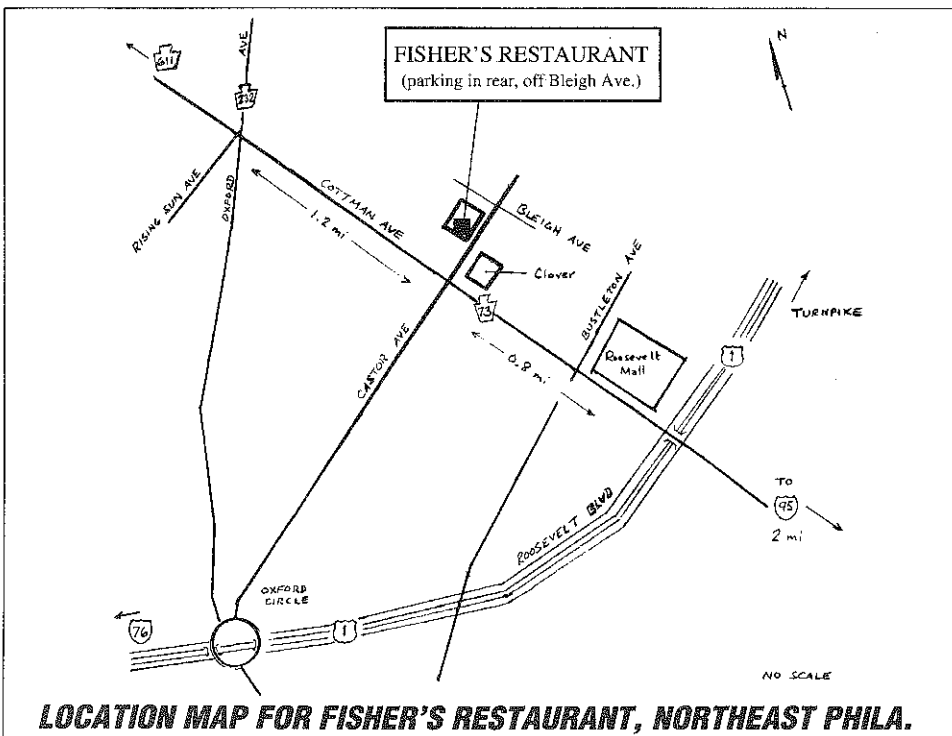
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#### COPY DEADLINE FOR

APRIL 1994 ISSUE

MARCH 8, 1994



LOCATION MAP FOR FISHER'S RESTAURANT, NORTHEAST PHILA.

## PHILADELPHIA SECTION ASCE ANNUAL CIVIL ENGINEERING AWARDS

# 1994

The Philadelphia Section takes pleasure in announcing the Annual Civil Engineering Awards. These awards are to recognize local members for their contributions to the Civil Engineering field. If you wish to nominate someone, please read the rules and criteria and then fill out the nomination form.

### ALL AWARDS WILL BE PRESENTED AT THE MAY 15, 1994 ANNUAL DINNER DANCE at The Harbor League Club, Camden, NJ

#### R U L E S

Nominations must be received prior to 3 p.m., **March 18, 1994**.  
(If time extension or information are necessary, contact  
**Bob Wright (215) 686-5538**).

All awards are presented only in years, where in the judgment of the Selection Committee, or the Board, there is at least one suitable candidate.

Individuals may be nominated for awards by a member in any grade of membership.

The Selection Committee will be required to nominate an alternate for Board consideration for each award.

Individuals may be awarded only one award in a single year.

Each Selection Committee will also recommend to the Board of Directors whether the recipient should be nominated for applicable national or regional awards by the Section.

Individuals may be nominated for more than one award.

Award recipients must be approved by the Board of Directors.

#### A W A R D S

### Philadelphia Civil Engineer of the Year

The section's highest award is presented to an individual who is judged to have contributed substantially to the civil engineering profession.

**CRITERIA:**

- Membership Grade - Member, Fellow, Life or Honorary
- Member in good standing of the Philadelphia Section

**RECIPIENT ALSO CONSIDERED FOR:**

1. Delaware Valley Engineer of the Year
2. Edmund Friedman Professional Recognition Award

### Philadelphia Young Government Engineer of the Year

This award is presented to a younger member who is employed by the Federal, a State or a Municipal Government or a public authority that has contributed to the civil engineering profession.

**CRITERIA:**

- Membership Grade - Associate member or eligible for membership.
- Member in good standing of the Philadelphia Section or employed within the Philadelphia Section boundaries.

**RECIPIENT ALSO CONSIDERED FOR:**

1. Zone I Young Government Engineer of the Year

### Philadelphia Young Civil Engineer of the Year

This award is presented to a young civil engineer who is judged to have contributed to the civil engineering profession.

**CRITERIA:**

- Membership Grade - Associate or Student
- Member in good standing of the Philadelphia Section or member of a student chapter assigned to the Philadelphia Section.
- Must be 32 years of age or younger on Feb. 1 of the award year

**RECIPIENT ALSO CONSIDERED FOR:**

1. Edmund Friedman Professional Recognition Award

### Government Service Award

Presented to an elected or appointed governmental official who has contributed substantially to the status of the civil engineering profession by their public service.

**CRITERIA:**

- Holds office in a jurisdiction which represents a geographical including an area which corresponds to the boundaries of the Philadelphia Section. This would include the President, a U.S. Senator from Pennsylvania, Congressman, Mayor, Commissioner, etc.

**RECIPIENT ALSO CONSIDERED FOR:**

- Civil Government Award

### Philadelphia Government Engineer of the Year

This award is presented to an individual who is employed by the Federal Government, a State Government, a Municipal Government or a public authority that has contributed substantially to the civil engineering profession.

**CRITERIA:**

- Membership Grade - Member, Life, Honorary or eligible for membership
- Assigned to the Philadelphia Section or employed or residing within the Philadelphia Section boundaries.

**RECIPIENT ALSO CONSIDERED FOR:**

1. Zone I Government Engineer of the Year
2. Civil Government Award

### Individual Technical Awards

The following awards have the same criteria. Each award is presented to an individual who is judged to have contributed substantially to civil engineering and in the area of the particular award.

- Civil Engineering Manager of the Year
- Geotechnical Engineer of the Year
- Structural Engineer of the Year
- Construction Engineer of the Year
- Transportation Engineer of the Year
- Water Resources Engineer of the Year

(over)

CRITERIA:

- Membership in any grade
- Member of the Philadelphia Section

RECIPIENT ALSO CONSIDERED FOR:

- Technical Groups will be responsible for nominating winners for appropriate national award.

**Educator of the Year**

This award is presented to an outstanding educator in the field of civil engineering, who has contributed substantially to the field.

CRITERIA:

- Membership Grade – Higher than student
- Member of the Philadelphia Section
- Must be a staff member of a college or university with an ASCE student club chapter.

**Philadelphia History and Heritage Award**

Presented to an individual whose efforts have made contributions to better the knowledge of, or appreciation of, the history and heritage of civil engineering.

CRITERIA:

- Must reside within the geographical boundaries of the Philadelphia Section or be a member of the Philadelphia Section.

RECIPIENT ALSO CONSIDERED FOR:

- Civil Engineering History and Heritage Award

✂ cut along line

**— NOMINATION FORM —**

IF YOU DESIRE TO MAKE NOMINATIONS FOR MORE THAN ONE PERSON, PLEASE PHOTOCOPY THIS FORM.

Name of Candidate \_\_\_\_\_

Address \_\_\_\_\_ Phone \_\_\_\_\_

Job Title \_\_\_\_\_

Work Location \_\_\_\_\_

**Membership:**

ASCE  Yes  No

Phila. Section  Yes  No

Age (if applicable) \_\_\_\_\_

Registration Information:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Award(s) Nominated to:** Check one (or more if applicable)

- Philadelphia Civil Engineer of the Year
- Philadelphia Young Civil Engineer of the Year
- Philadelphia Government Engineer of the Year
- Philadelphia Young Government Engineer of the Year
- Government Service Award
- Educator of the Year
- Philadelphia History and Heritage Award

**Individual Technical Awards:**

- Civil Engineering Manager of the Year
- Geotechnical Engineer of the Year
- Structural Engineer of the Year
- Construction Engineer of the Year
- Transportation Engineer of the Year
- Water Resources Engineer of the Year

Academic Degrees:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Other Professional Societies:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Civic or Charitable Activities:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Continuing Education:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Other Awards or Honors:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Nominated by:

Name \_\_\_\_\_

Member I.D. (See Newsletter label) \_\_\_\_\_

Address \_\_\_\_\_

Telephone Number \_\_\_\_\_

Achievements: In 100 words or less, that supports the candidate's nomination, please use separate sheet.

Submit to: Bob Wright; ASCE; P.O. Box 58186; Philadelphia, PA 19102-8186

**PHILA. SECTION ASCE  
YOUNGER MEMBER FORUM**

The Younger Member Forum of the Philadelphia Section, ASCE is beginning to take shape. At this time we are looking for Engineers below the age of 33 who are interested in becoming involved. Our vision is to create an organization of developing engineers who will assist each other in our professional development and community involvement.

We are beginning to plan a seminar series aimed at presenting topics such as career planning, management strategies, personnel management, time management, etc. Most of us got a healthy dose of technical training in school, but in all likelihood our professional development will quickly move us away from the number crunching we were taught.

Future activities may range from social events such as group seating at ball games, happy hours, or ski trips; you know, "Networking." We would also like to become involved in local schools through such things as career days or just general engineering presentations to classes.

If this sounds like something you might be interested in, please call or fax the following information: Name, Company, phone number and fax number.

Thanks! Rich Markwith, F.R. Harris (215) 735-0832; or Allen Cadden, Schnabel Engineering Assoc. (610) 696-6066. Return faxes to Allen Cadden, Schnabel Engineering, (610) 696-7771.

**CENTRAL PA SECTION  
GEOTECHNICAL SEMINAR**

On September 12-14, 1994, the Central Pennsylvania Section of ASCE and Pennsylvania Department of Transportation will sponsor the 14th Geotechnical Seminar entitled: "Soil Structure Interaction and Environmental Issues" at the Hershey Lodge and Convention Center, Hershey, Pennsylvania. For registration or further information please contact Cari Beenenga, Gannett Fleming Inc., P.O. Box 67100, Harrisburg, PA 17106-7100, (717) 763-7211, ext. 2698.



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**JANUARY JOINT DINNER MEETING**

January 26, 1994

Holiday Inn -- King of Prussia

**Subsurface Utility Engineering**

By Bill Richards, Associate Editor

About 75 Phila. Section and Reading Branch, and American Society of Highway Engineers (ASHE) members braved the weather and icy highways to enjoy a very instructive session highlighted by a state-of-the-art discussion on Subsurface Utility Engineering. The joint meeting of the two organizations was well-received by those in attendance and was also Villanova night for that university's ASCE Student Chapter.

ASCE Section President, **Bob Wright**, started the meeting's activities with a summary of upcoming events and then announced the selection of the Section's Membership Chairman, **Sandra J. May** as the Delaware Valley Young-Engineer of the Year for 1994. Sandra will receive her award during Engineers Week festivities.

**Robert L. Milliken**, Director of Operations for Underground Services, Inc. then made the feature presentation on Subsurface Utility Engineering (SUE). SUE is an engineering service that incorporates recent technology in order for underground utilities to be accurately located and mapped. This is particularly useful in early development of construction projects allowing cost-effective design, elimination of unexpected conflicts, and avoiding unnecessary relocations.

The components of SUE are designating, locating, and data management. Designation consists of the use of electromagnetic, magnetic, sonic and other devices to establish the existence

and approximate horizontal location of underground utilities. Locating requires a visual determination of the utility and is presently generally accomplished by compressed air and vacuum excavation requiring holes as small as 8x8 inches. Data management is the process by which designation and location data is utilized for planning in systems such as CADD. The final results can be maps or plans of much better accuracy than anytime before.

**Bob Milliken** showed the audience many of the state-of-the-art designation devices. He also presented slides demonstrating the effectiveness of the vacuum excavation process, including examples where gas main joints were located within 12x12 inch holes and with leaks being epoxy sealed through that minimal excavation.

**Bob** concluded by describing a future with more advanced electronic designation equipment, particularly with improvement in depth determination. This may eliminate the need for vacuum excavation, but the data management uses will escalate. Global positioning satellite systems may allow transferring data accurately between many data bases.

The meeting concluded with a variety of incisive questions on liability, risk management and federal acceptance. Then the well-informed membership left the camaraderie of the session to once again battle the elements and return home.

**TECHNICAL GROUP ACTIVITIES**

(Continued from Page 2)

Specific projects will be discussed, including the Franklin Mills Mall; The Regency, Atlantic City; Vanguard Headquarters, Tredegar Town-ship; and the Marriott Hotel, West Conshohocken.

**Engineering Management Group  
March Meeting**

Date: **Wednesday, March 23, 1994** - 12:00 Noon  
Location: **Strawbridge & Clothier**, 6th Floor, Private Dining Room, 8th & Market Sts., Phila., PA  
Subject: **Improving Competitiveness of Engineering Organizations**  
Speaker: **Mr. John Ebbers**  
Cost: \$15.00 per person

**John Ebbers** is a management consultant who has provided services to companies such as Allied Signal, General Electric and PECO in helping them achieve goals in cost reduction, sales improvement, and increased productivity to enhance their competitive capability. Mr. Ebbers will discuss the challenges facing engineering organizations today, and the principles of Total Quality Management (TQM) which can help to meet these challenges.

For further information and reservations, please contact either **Mr. Al Zion, P.E.** at (215) 937-1930 or **Mr. Chris Rood, P.E.** at (215) 580-7586. Reservations will be required for the lunch and must be received no later than **Monday, March 21, 1994.**

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(215) 895-2363

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## IMPORTANT! 1993-1994 MEETING NOTICES

MARK YOUR CALENDAR for the dates of the remaining Philadelphia Section, ASCE monthly meetings and social functions, as follows: (Check each issue of coming editions of THE NEWS for details, possible date and topic changes.) THIS IS A TENTATIVE LIST.

**ALL DINNER MEETINGS** (Except as noted for Luncheon Meetings)

Cocktails – 5:30 p.m. Dinner – 6:30 p.m. Meeting – 7:30 p.m.

**STUDENTS:** All dinner and/or luncheon charges one-half price. If you prefer, you are welcome to attend all meetings after dinner or luncheon, at no charge.

**Friday, March 18, 1994** – All-Day Seminar, Drexel University Geosynthetic Research Institute  
Geotextile Seminar II – Transportation Applications  
Speaker: **Dr. Robert M. Koerner**, Director, GRI  
Location: Stein Auditorium, Drexel University

**March, 1994** – Location, date and time to be announced  
Financial Planning/Insurance Seminar

**Saturday, March 26, 1994** – Family Night of Bowling  
Details to be announced.

**Wednesday, April 13, 1994** (previous date in error) – Harbor League Club, Camden, NJ  
Joint Dinner Meeting with Society of American Military Engineers (SAME)  
World Trade Center Emergency Preparedness – Response to Bombing  
Speaker: **Eugene Fasulla**, Port Authority of New York and New Jersey  
Widener University Night

**Sunday, May 15, 1994** – Annual Spring Dinner Dance, Harbor League Club, Camden, NJ

Join the Section's

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## NEWS OF MEMBERS

### Tantala Completes Winds Course

Phila. Section Past President Albert M. Tantala, P.E. (1986-1987), recently completed a short course titled "Engineering for Extreme Winds: 1994," at Texas Tech University in Lubbock, Texas. Mr. Tantala is President of Tantala Associates, Consulting Engineers, with offices in Philadelphia, and Margate, NJ. Tantala Associates has a speciality in wind-loaded structures. Also, in December 1993, Mr. Tantala gave a seminar at the ESCC Sign Expo at the Convention Hall in Atlantic City.



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