QUESTIONNAIRE ON SUBJECT AREAS OF AUTHORS AND REVIEWERS

Check o	ne: [Author Reviewer			
Name: _			Tit	ile:	
		ress:			
			Fa	x:	
			E	Mail:	
the subje which th	ectar ney h	reas most applicable to their respective manu	scripts, and (b) prospecti	uscripts submitted for publication are asked to circle ve reviewers are asked to circle the subject areas in evaluations of manuscripts submitted to GTJ for
					Howard Pincus Technical Editor
1. FIEL	D EX	KPLORATION		2.15	Load-Deformation
				2.16	Seismic Methods, Acoustic Emission
1	.1	Reconnaissance			Other
	.2	Mapping and GIS			
	.3	Remote Sensing	3	TESTING	AND MONITORING SOIL AND ROCK
	.4	Geophysical Methods	٥.	STRUCTU	
	.5	Geochemical Methods		JINCOI.	
	.6	Geobotanical Methods		3.1	Embankments
1	.7	Borehole Logging		3.2	Rock for Erosion Control
1	.8	Drilling Operations		3.3	Dams
1	.9	Sampling Soil		3.4	Tunnels and Shafts
1	.10			3.5	Marine Structures
1	.11	Sample Transport and Storage		3.6	Waste Impoundments
1	.12	Ground Water Monitoring		3.7	Pavement Systems
1	.13	Surface Water Monitoring		3.8	Drainage Aids
1	.14	Other		3.9	Natural Slopes
				3.10	Fills
				3.11	Retaining Structures
2. FIEL	D (II	N SITU) TESTING			Liners
				3.13	
	2.1	Calcareous Soils			Mechanically Modified Soil and Rock
		Marine and Lacustrine Sediments			Chemically Modified Soil and Rock
	2.3	Admixtures			Biologically Modified Soil and Rock
	2.4	Hydrocarbon-Bearing Soils		3.17	Admixtures
	2.5	Hazardous Materials			Erosion Tests
	2.6	Pollutants		3.19	A .
	2.7	Jointed Rock			Piles and Foundations
	2.8	Tailings, Backfill, Talus		3.21	Other
	2.9	Penetration Testing			
	2.10	Moisture, Density	4.	LABORA	TORY TESTING—SOIL
	2.11	In Situ Stresses		<i>A</i> 1	Classification Identification No.
	2.12	Transmissivity, Storativity Physicochemical Testing		4.1	Classification, Identification, Nomenclature
	2.13	r nysicochennear resung		4.2	Sampling and Specimen Preparation,

2.14 Stress-Strain, Strength

Transportation, and Storage

4.3 4.4	Grain Size, Specific Gravity, Density Physicochemical Properties	7. LABORA MATERI	ATORY TESTING—ROAD AND PAVING
4.5	Permeability, Void Ratio, Water Content	MAILKI	IALS
4.6	Consolidation, Swelling, Collapse	7.1	Classification Identification Nomenalature
4.7	Shrinkage, Creep	7.1	Classification, Identification, Nomenclature
4.8	Compaction Tests	7.2	Specimen Preparation Machanical Preparation Phaselogy
4.9	Stress-Strain, Strength	7.3	Mechanical Properties, Rheology
4.10		7.4	Chemical Properties
4.11		7.5	Durability Properties
4.12		7.6	Specific Gravity and Density
4.13		7.7	· · · · · · · · · · · · · · · · · · ·
	Other	7.8	Other
		8. LABOR	ATORY-MODEL TESTING
5. LABORA	TORY TESTING—ROCK AND		
	ION STONE	8.1	Soil-Rock-Structure Interaction
		8.2	Soil and Rock Reinforcement
5.1	Classification, Identification, Nomenclature	8.3	Grouts and Admixtures
5.2	Specimen Preparation	8.4	Geotextiles
5.3	Texture, Fabric, Specific Gravity, Density	8.5	Fluid Flow through Soil and Rock
5.4	Permeability, Void Ratio, Pore-Size Distribution,	8.6	Simulated Soil and Rock
5.1	Water Content	8.7	Centrifuge Tests
5.5	Stress-Strain, Strength	8.8	Other
5.6	Creep	0.0	
5.7	Fracture-toughness		
5.8	Shear Strength, Sliding Friction	9. MISCEL	LANEOUS
5.9	Seismic and Acoustic Tests). MISCEL	E. II (2005)
5.10		9.1	Quality Control, Quality Assurance
5.10		9.1	Equipment Calibration and Traceability
5.12		9.2	Proficiency Testing
5.13		9.3 9.4	Ruggedness in Testing
5.14	• •	9. 4 9.5	Interlaboratory Testing; Repeatability and
3.14	One:		Reproducibility
C I ADODA	TODY DECENIA CEOCUNITIETICS	9.6	Error Propagation
6. LABOKA	TORY TESTING—GEOSYNTHETICS	9.7	Automated Control of Testing
		9.8	Data Acquisition, Reduction and Management
6.1	Classification, Identification, Nomenclature	9.9	Probabilistic Methods
6.2	Specimen Preparation		Numerical Modelling
6.3	Mechanical Properties		Laboratory Accreditation
6.4	Chemical Properties		Education and Training
6.5	Endurance Properties	9.13	Terminology, Definitions, and Notation
6.6	Permeability and Filtration		Other
6.7	Other	9.15	Other
SUMMARY	OF NUMBERS CHECKED:		
COMMENT	S:		
	<u> </u>		

Please send completed form to:

Ms. Kathy G. Dernoga, Manager, Acquisitions and Review ASTM Publications 1916 Race Street Philadelphia, PA 19103-1187 or FAX 1 215 299 5511

Questionnaire for Geotechnical Laboratories ASTM Task Group on Data Automation

_;	Name	Position					1				
	Company	Address									
	Type of Organization: University Gov	Government	Consulting	***************************************	Industry						
	List testing or standards organizations in which you participate	ou participate					1				
7	With regard to the general laboratory. Number of staff devoted to lab Floor area in sq. ft.	staff devoted to	lab Flectron	oor area in sq. ft.	rımentation	Snecialist	Software en	gineer			
	Which of the following do you have?Temperature ControlDust ControlEmergency Power	ature Control	Dust Contro	Emergency Po	wer						
За.	3a. Please complete the following table for soil tests performed in your facility:	serformed in you	ır facility:		ı						
<u></u>	Soil Tests	Gradation ©422)	Limits	Consolidation (02435)	UC (02166)	UU (Q) @2859)	CU (R) ©4785)	CD (S)	Direct Shear	Permeability (D2434 D5084)	₹
	Number of tests per year								i i		
	Check if you automatically record data										
	Check if you use computer for data reduction										
	Check if you use computer for graphs or tables										
<u> </u>	Estimated cost savings per test from automation										
]] *	describe other test										

÷	4. Flease complete the tonowing lable for fock tests performed in your facility	INDICE TO LOCK	2122	CHOTHER III y	שניים ומכווונ		
L					.		
	Rock Tests			Strength	<u> </u>	Elastic Modulus	Permes
_					_		

4. Flease complete the following table for fock tests performed in your		lacility.	ļ				
Rock Tests	Strength (D2664, D2936, D2938, D3967),	Elastic Modulus (D2845, D3148, D5407)	Permeability (D4525)	Creep (D4341, D4405, D4406)	Sonic (D2845)	Thermal (D4535, D4611, D4612, D5334, D5335)	Other" (D4644, D5240, D5312, D5313)
Number of tests per year							
Check if you automatically record data							
Check if you use computer for data reduction							
Check if you use computer for graphs or tables							
Estimated cost savings per test from automation							

^{*} describe other test

Questionnaire for Geotechnical Laboratories ASTM Task Group on Data Automation

If you have a data acquisition system, please answer the following questions (use a separate copy for each system) Type	If your data acquisition system uses software to collect and reduce data, please answer the following: Function of software:collect datasort data for test from master data filereduce dataplot resultsshow real-time graphs of testcontrol testplace data in master data baseperform statistical and/or engineering evaluations of datacontrol testplace data in master data baseperform statistical and/or engineering evaluations of datacontrol test Who corrects deficiencies Who corrects deficiencies Is software flexible enough for your needs Is software problems you have had Is software available to others Why	If you have no data acquisition equipment or are considering expansion of your present system Do you plan further automation in the near future? Why Which tests do you plan to automate? Which parts will you automate? collect data after test plot results for report provide real-time graph as test runs control test other Will you purchase software develop software in-house What information is most helpful in selecting a new system (please rank by importance with 1 as highest) manufacturer's literature specs example results reliability of system experience of another with system other (specify)
If you have a data acquisition system, Type Maximum Number of Readings per se Total cost of sensors Describe what you use the system for Does the system control the test How much time required to train a nev Did supplier offer service contract Describe experience with service Is system rugged Give examples Has system been cost effective? Give examples Has you considering additional equipm How do you charge your clients for us Would you buy the same system again	6. If your data acquisition system uses s Function of software:collect datacontrol testplace data in master Programming language used How much time to train new user Can you modify software Describe software problems you have Would you buy same system again Is your software available to others	If you have no data acquisition equipm Do you plan further automation in the Which tests do you plan to automate? Which parts will you automate?col Will youpurchase softwaredeve What information is most helpful in seexperience of another with system _

9

۲.

Thank you for your time and help. Please mail the completed questionnaire to: D18.95 Data Automation Survey, c/o Bob Morgan,

What standards would be helpful to you in regard to using your data acquisition equipment?

6.

∞i

10. Please comment on your experiences with data acquisition systems, positive and negative.

ASTM, 1916 Race Street, Philadelphia, PA 19103-1187. Phone any questions to Dr. Marr at (508) 635-0012.

Additional Information for Authors

The Geotechnical Testing Journal (GTJ) is a quarterly publication sponsored by ASTM technical committee D-18 on Soil and Rock, with support from D-35 on Geosynthetics, D-4 on Road and Paving Materials, and D-34 on Waste Management. Each published paper and technical note has been peer-reviewed. Papers and technical notes are open to brief written comments in the Discussion section of the Journal, which also includes authors' written responses.

The Technical Editor may consider a paper submitted to the Journal as a Technical Note if: it gives a reasonably brief description of ongoing studies with or without providing interim, tentative data, and/or conclusions; it reports phenomena observed in the course of research requiring further study; it provides mathematical procedures for facilitating reduction and analysis of data; or it reports promising new materials prior to undertaking extensive research to determine their properties.

The decision as to whether a manuscript is published as a paper or a technical note resides with the Technical Editor.

The guidelines below describe our manuscript selection, peer review, revision, and publication processes. Following these guidelines will ensure expeditious handling of submitted material.

Submission

The name, mailing address, position, affiliation, and telephone and fax number of each author must be supplied in a cover letter. The submitting author is to provide the names, affiliations, addresses, and telephone numbers of five to six individuals who are qualified to review impartially the paper and the research leading to it, and who are not employed at the same institution or company as any of the authors. While these names may or may not be used for the review, we will add them to our pool of potential reviewers. Also, a statement is to be included that the paper has not been published and is not under consideration for publication elsewhere. All permissions for previously published material used in the paper must be submitted in writing at this time.

The submitting author must also affirm that all those listed as co-authors have agreed (a) to be listed and (b) to submit the manuscript to ASTM for publication.

Five copies of the manuscript with clear copies of each figure are required. Original art work and computer disks should accompany the final revision.

Manuscript Instructions*

Word Processing Instructions

The hard-copy text can be produced on any letter-quality printer. Text is to be printed double-spaced with left and right margins of 1 in. (25.4 mm) using left justification. New paragraphs are to be indented five spaces, and end-of-line returns are not to be used.

The revised manuscript is to be sent on a $5^{1}/_{4}$ in. (133 mm) or $3^{1}/_{2}$ in. (89 mm) disk preferably in WordPerfect 5.1, with the

* For complete manuscript instructions, which include a sample manuscript, call Barbara Stafford, Administrative Assistant, ASTM Journals, 215/299-5424 or FAX 215/299-5511.

corresponding hard copies. ASTM can convert from other word-processing packages as well.

Abstract and Keywords

An abstract of 100-150 words and a list of 5-10 keywords that can be used to index the manuscript are required.

Trademarks

Commercialism is to be avoided by using generic terms whenever possible. Trademarks and trade names are to be capitalized if their use is unavoidable.

SI Units

Society policy requires the use of SI units in all publications (including figures and tables). If in.-lb. units must be used to describe materials and present test results, SI equivalents must follow in parentheses (See ASTM Standard for Metric Practice E380 for further information on SI units.)

Figures

Each figure is to be simple and uncluttered. All illustrations are to be placed together at the end of the manuscript with a separate sheet of figure captions. Consecutive Arabic (not Roman) numerals are required. The size of type in illustrations must be large enough to be legible after reduction. All lettering, lines, symbols, and other marks must be drawn in black India ink on white paper. Computer graphics must be produced by a laser printer. Photographs must be high-contrast black and white. SCALE MARKERS MUST BE SHOWN ON ALL PHOTOMICROGRAPHS AND ALL FIGURES THAT ARE REPRESENTATIONS OF EQUIPMENT OR SPECIMENS.

Tables

All tables are to be placed together at the end of the manuscript preceding the illustrations. Tables are to be numbered in Arabic and are cited in numerical order in the text. it is better to use several small simple tables than one large, complex table.

References

References shall be cited in the text by author's last name and date of publication. References shall be listed together at the end of the text in alphabetical order by author's last name. They must contain enough information to allow a reader to consult the cited material with reasonable effort.

Copyright

ASTM requires that the submitting author shall return our "Paper Submittal Form" with the revised paper assigning copyright to ASTM. For U.S. government employees whose manuscript has been prepared as part of their official duties, it is understood that copyright in the United States is not transferrable.

Manuscript Review

Each new manuscript is sent to the Technical Editor for consideration. If the Technical Editor finds that the manuscript fits the scope of the journal, will be of interest to the readership, and is well written, the paper is processed for peer review.

Three or more reviewers, selected by the Technical Editor, review each paper for technical content, originality, logical conclusions, sound data, reproducibility of results, and clarity of presentation; two or more reviewers provide reviews of each technical note. Their comments are compiled and evaluated. The reviewers' anonymous comments and any other comments from the Technical Editor or his designee are then returned to the author for revision.

The author must submit five copies of the revised manuscript with an annotated (highlighted) version of the paper indicating clearly where each revision has been made and identifying the reviewer's comment to which the revision is responding. Changes in the text including all MANDATORY reviewers' comments must be addressed explicitly on the "Authors' Response Form" provided during revision, as well as any explanation why a change was not made.

The Technical Editor will evaluate all revised manuscripts and make the final decision regarding publication in the Journal. The Editor may (1) accept the revised manuscript for publication, (2) require further revision or explanation, or (3) reject the revised

manuscript. A revised manuscript may be sent for re-evaluation to a reviewer who has found major flaws in the original manuscript.

Editorial Review by ASTM

Each accepted paper is edited by the ASTM staff for style, organization, and proper English usage. The edited manuscript is returned to the author before typesetting. The typeset page proof is also sent to the author and the Technical Editor for final review prior to printing.

If ASTM does not hear from the author by the time designated for return of the edited paper and/or page proof, ASTM will proceed with the publication process.

Book Reviews

ASTM receives books from other publishers requesting book reviews. The books are available to potential reviewers in exchange for publishable reviews. Book reviews are screened and edited by the Technical Editor and staff without peer review.

Testing Forum and Tips

Anyone having interesting test tips should submit a brief description of such innovations to the Testing Forum. Such contributions are screened and edited by the Technical Editor and staff without peer review.

Howard J. Pincus, Ph.D., P.E., C.P.G. Technical Editor

E 380 SELECTED CONVERSION FACTORS

To convert from	to	multiply by
atmosphere (760 mm Hg)	pascal (Pa)	1.013 25 x 10 ⁵
board foot	cubic metre (m³)	2.359 737 x 10 ⁻³
Btu (International Table)	joule (J)	$1.055 \ 056 \times 10^{3}$
Btu (International Table)/h	watt (W)	2.930 711 x 10 ⁻¹
Btu (International Table)•in./s•ft²• °F	watt per metre kelvin [W/(m•K)]	5.192 204 x 10 ²
(k, thermal conductivity)	• • • •	
calorie (International Table)	joule (J)	4.186 800*
centipose	pascal second (Pa•s)	1.000 000* x 10 ⁻³
centistokes	square metre per second (m²/s)	1.000 000* 10-6
circular mil	square metre (m ²)	5.067 075 x 10 ⁻¹⁰
degree Farenheit	degree Celsius	$t^{\circ}C = (t^{\circ}F - 32)/1.8$
foot	metre (m)	3.048 000* x 10 ⁻¹
ft²	square metre (m ²)	9.290 304* 10-2
ft ³	cubic metre (m³)	2.831 685 x 10 ⁻²
ft•lbf	joule (J)	1.355 818
ft•lbf/min	watt (W)	2.259 697 x 10 ⁻²
ft/s²	metre per second squared (m/s ²)	3.048 000* x 10 ⁻¹
gallon (U.S. liquid)	cubic metre (m³)	3.785 412 x 10 ⁻³
horsepower (electric)	watt (W)	7.460 000* x 10 ⁺²
inch	metre (m)	2.540 000* x 10 ⁻²
in. ²	square metre (m ²)	6.451 600* x 10 ⁻⁴
in. ³	cubic metre (m³)	1.683 706 x 10 ⁻⁵
inch of mercury (60°F)	pascal (Pa)	$3.376~85 \times 10^3$
inch of water (60°F)	pascal (Pa)	$2.488 4 \times 10^{2}$
kgf/cm ²	pascal (Pa)	9.806 650* x 10⁴
kip (1000 lbf)	newton (N)	4.448 222 x 10 ³
kip/in.² (ksi)	pascal (Pa)	6.894 757 x 10 ⁶
ounce (U.S. fluid)	cubic metre (m³)	2.957 353 x 10 ⁻⁵
ounce-force	newton (N)	2.780 139 x 10 ⁻¹
ounce (avoirdupois)	kilogram (kg)	2.834 952 x 10 ⁻²
oz (avoirdupois)/ft²	kilogram per square metre (kg/m²)	3.051 517 x 10 ⁻¹
oz (avoirdupois)/yd²	kilogram per square metre (kg/m²)	3.390 575 x 10 ⁻²
oz (avoirdupois)/gal (U.S. liquid)	kilogram per cubic metre (kg/m³)	7.489 152
pint (U.S. liquid)	cubic metre (m³)	4.731 765 x 10 ⁻⁴
pound-fource (lbf)	newton (N)	4.448 222
pound (lb avoirdupois)	kilogram (kg)	4.535 924 x 10 ⁻¹
lbf/in² (psi)	pascal (Pa)	$6.894 757 \times 10^3$
lb/in³	kilogram per cubic metre (kg/m³)	2.767 990 x 10 ⁴
lb/ft³	kilogram per cubic metre (kg/m³)	1.601 846 x 10
quart (U.S. liquid)	cubic metre (m³)	9.463 529 x 10 ⁻⁴
ton (short, 2000lb)	kilogram (kg)	9.071 847 x 10 ²
torr (mm Hg, 0°C)	pascal (Pa)	$1.333 22 \times 10^{2}$
W•h	joule (J)	3.600 000* x 10 ³
yard	metre (m)	9.144 000* x 10 ⁻¹
yd²	square metre (m²)	8.361 274 x 10 ⁻¹
yd³	cubic metre (m³)	7.645 549 x 10 ⁻¹

^{*}Exact