it is nearly impossible to say whether they are voiced or voiceless. In other words, they practically coincide acoustically with the weak and obscure British one-tap trill, and so are confused with it. Some British dialect writers have very cleverly taken advantage of these phonetic phenomena and are found spelling the American use of the slang phrase "I gotta go", "*I gorra go*". To a British reader this represents the American pronunciation accurately, but it is vastly puzzling to the American reader, who, unless phonetically trained, will understand that the Englishman thinks the American says "I gara go".

This interlacing of British and American phonemes produces a whole set of anomalous homonyms. I set down a few:

Englishman says	American hears
Perry	Peddie or petty
berry	Betty
carry	caddie or catty
Larry	laddie -
Jerry	jetty

Of course, the table above can be reversed. Indeed, I am of the opinion that the Englishman will misunderstand the American more often than vice versa.

American says	Englishman hears
Peddie or betty	Perry
Betty	berry
caddie or catty	carry
laddie	Larry
jetty	Jerry

IV. Pseudo-Phonetic Devices

I made mention a moment since of the American's puzzling at seeing his gotta (i.e. got to) interpreted as gorra. As a matter of fact, there is a general misunderstanding of many writers, since they cannot use a phonetic alphabet, and must rely, instead, on pseudo-phonetic spelling. British dialect writers are accustomed, for instance, to use the letter γ as a lengthening symbol. Examples are the Cockney off orf represented as orf, 'alf arf as arf, laugh larf as larf, etc. This is all well enough for the Southern British reader, and for the Eastern and Southern American. But the Scotchman, the Irishman and the general American, who pronounce all r's, are woefully misled into thinking that Cockneys say orf, arf, larf, arsk, etc. HILAIRE BELLOC, in his amiably satiric novel But Soft, We Are Observed! spells a word of his caricatured Lord Delisport torkin. I assume that here again a drawled to:kin for talking is intended; but a good, round majority in the English-speaking world will think Lord Delisport said torkan. Incidentally, h as a lengthening sign is much more nearly universally understood than r. Mr Belloc's abaht for about will hardly be misapprehended anywhere, whereas if he had spelled it abart, to match his arsk for ask, it would most certainly have been pronounced əbart by quite too many people.

OF PHONETIC SCIENCES

V. Some Lists of Comparative Pronunciations

The following tabulation summarizes some of the points covered in this paper, and lists various others otherwise untouched herein.

			and the second	
	Standard	Standard	Standard	British
	General	Southern	Eastern	Received
	American	American	American	Standard
	-			
pass	pæs	pæs	pæs, pas, pas	pas
dance	dænts	dænts	dænts, dants, dants	dans
can't	kænt	kænt	kænt, kant, kont	kant
man	mæn	mæn	mæn	mæn, mæ+n
water	watər	wotə, watə	wotə	wotə
watch	watf	watf	watf, wptf	wptf
note	nout	nout	nout	nout, ngut
cord	kord	koəd	kord	kord
court	kourt	koət	koət, koət	kort, koət
bore	bour	boə	boə	bor
not	nat	nat	nat, npt	npt
was	waz	waz	waz, wpz	WDZ
news	njuz, nuz	njuz	njuz	njuz
assume	əsum	əsum	əsum, əsjum	əsjum
boxes	baksəz	baksız	baksız, boksız	boksiz
Alice	ætəs	ælıs	ælıs	ælıs
careless	kærləs, kerləs	kæəlıs	keəlis	keəlis
ability	əbiləti	əbiliti	əbiliti	əbiliti
lily	tıtı	1111	1111	1111
which	MIt∫	MIT, WIT	witf, mitf	witf
heard	həd	hard	hard	hard
murmur	mə mər	maimə	maima	marma
card	kard	kard	kaid	kard
very	VETI	VETI	veri, veri	Vîli
far away	far əwei	far əwei, fa əwei	far əwei, far əwei	far əwei
more	mour	moə	moə, məə	mor, moə
laboratory	'læbərə _l touri	læbərə _l touri	læbra touri, læbratri	lə ¹ bourətrı, ¹ læbrətrı
dictionary	^I dık∫ən ₁ εrı	^I dık∫ən ₁ εrı	^I dık∫ənıɛrı, ^I dık∫ənrı	ldık∫ənrı
thirteen	0ə.trin	O sitin	θ_{31} tin, θ_{3} ·tin	θ3·tin
been	bm	bın	bm	bin
ate	eit	ert	ert	εt
either	iðər	iðə	iðə, aıðə	aiðə
Berkeley	bəklı	psikli	parklı	baikli
much	m∧t∫	m∧t∫	m∧t∫	m∆⊤t∫
fall	fəl	fol, fool	fəl	fo±1
reptile	reptl	reptļ	reptl	reptail
and the second se	and a second			

64. Mrs JANE DORSEY ZIMMERMAN (New York): Representative radio pronunciation in America.

The radio and talking pictures have been in some measure responsible for the increased interest and attention that has been focused on the subject of American-English speech during the past few years, by making listeners conscious of variations in speech that had never before been brought to their attention.

Not only has the radio served in its general broadcasts as a laboratory for the observation of speech patterns, but it has offered programmes which have been devoted to that subject specifically. Under

such headings as "Your English", "Magic of Speech", and "Good American English", radio programme directors have scheduled talks and debates by specialists in speech, short dramatic sketches illustrating various American and some British-English dialects, and in addition to this have offered instruction over the air to those who wish to "improve" or to change their speech.

Many Americans, hearing pronunciations and expressions made by their own countrymen with which they are unfamiliar over the radio, or in the theatre or talking pictures, or in their travels, characterize them as incorrect or vulgar, or uneducated, and are as loud in their demands that something should be done about eliminating them, as are their British cousins who wish to keep their language free from Americanisms.

If these demands are in the form of letters to the newspapers, or to the broadcasting stations, or are presented in English and Speech classes, they very soon lead to the necessity of considering the problem of "standards" or A Standard. And then the fur begins to fly! Columns and columns in the newspapers are often given over to the criticisms and complaints and queries of lexicographers, teachers, dialect scholars and laymen who have something that they wish to say on the question of how American-English should be spoken. The purists are charged with trying to make the language static, artificial, and quite out of keeping with modern usage. Those who wish to preserve the dialects, and those who are willing to accept changes that seem to have become fairly well established in colloquial speech (and will probably prevail whether any one wishes them to or not) are accused of encouraging carelessness and vulgarity. In classes the discussions are no less violent and dogmatic. The debates may continue for days or even weeks, with no compromise or agreement ever arrived at, and with each contender holding fast to his original opinion or prejudice.

Scholars and teachers, dictionaries, language text-books, and other usage and pronunciation guides, are cited as authorities, often with the result of confusing the issue still further. In the first place, it is discovered that many of these authorities are not in agreement, and enquirers are at a loss to know whose opinion to accept. In the second place, it is found that definitions and pronunciations are recorded that are not current in the speech of the observers, or of those whom they are observing, and that definitions and pronunciations that are very commonly used are omitted.

The controversy is still further complicated by the fact that while many individuals are observing speech, are being exposed to variations in American-English, are being influenced either directly or indirectly by what they hear, and are trying to influence others, few of them have assembled their observations in a form suitable for study and discussion by other students who are interested in the subject. A notable exception is, of course, Dr JOHN KENYON, who has treated the subject of current usage in General American admirably in the *Guide to Pronunciation* of *Webster's New International Dictionary*, second edition, 1934. The editors, however, seem not to

OF PHONETIC SCIENCES

have had complete faith in Dr KENYON's findings, and list too few of them in the body of the dictionary.

It was with the hope of becoming better informed about actual usage in American speech, and of collecting material on the subject that would be useful to students of the language, that the writer began a study of radio pronunciations several years ago in the Phonetics Laboratory of Dr CABELL GREET at Columbia University and has continued it in the speech laboratory at Teachers College during the past year and a half. During this period the speech of more than five hundred speakers was recorded on a phonographic recording machine which was equipped with apparatus for recording programmes as they were broadcast from the major radio stations.

For the part of the study to be reported here, the records of nonprofessional radio speakers were chosen. Non-professional radio speakers were designated as those who were influential enough in some field to be asked to broadcast, or having asked for time on the air, were granted it. They were in no sense professional announcers, or news commentators, or those engaged in weekly commercial broadcasts. Many of them had not previously talked over the radio, and those who had done so had spoken very infrequently.

The records of fifty such speakers were chosen. In most cases these were IO-inch double-faced aluminium records, on which was recorded about five minutes of speech, or from 400 to 600 words. The words having both strong and weak forms were not used in this study, so that the number of words for each speaker varied from three hundred to four hundred.

The speakers represented a variety of professions and occupations. President and Mrs ROOSEVELT were among them, as was ex-president HOOVER. There were several governors, an ex-governor or two, present and former cabinet members and Congressmen, several college and university presidents, college professors, a few politicians, several writers, a social worker, two newspaper publishers, a former ambassador, a banker, two lawyers, two philanthropists, a poet, and several business executives. There were ten women and forty men in the group studied. Their ages varied from thirty-five to seventy years. They had all had the equivalent of a secondary education, and all but a very few of them held one or more college degrees from accredited institutions.

Every section of the country was represented in the group, though there were more speakers from the Middle West and Middle Atlantic states included in the part of the study being reported. It is not the purpose of this paper to deal with the matter of regional differences in speech, although the writer believes that the best and most useful of these should be retained, but not as a matter of local pride of possession. The student who says, "Oh, I'm from the Middle West, and I pronounce my r's", generally has a notion that the Middle West has a corner on that sound when it is post-vocalic, and that it is not heard in that position in any other section of the country. Such is not the case, of course, particularly in the matter of this retroflexive or retracted vowel which is indicated in the spelling by the letter r. It is heard in practically every state in the

OF PHONETIC SCIENCES

union. Similarly with many other pronunciations that have been localized as characteristic of one section of the country only, but are heard quite commonly elsewhere.

The records were played on an electric phonograph and the words spoken were transcribed into narrow phonetic symbols. Most of the words used in the study were transcribed by at least one graduate student in the department of Speech at Teachers College who had studied phonetics. Several of the records were studied by groups of from five to ten or more students. There was general unanimity of opinion as to what was said by the speakers, as shown by a comparison of the transcriptions made by the writer and other observers. A few words were identified variously by different listeners, and there was some uncertainty, and occasionally a difference of judgment, in determining which of two symbols more nearly represented the sounds heard in some of the words.

For this study only those words were selected in which there was complete agreement between the writer and other listeners, both as to the identification of each word, and to the symbol to be used for the representation of the sound heard. Furthermore, a word was not included unless it was quite a common one, and unless it was used by ten or more of the speakers observed. The numbers given to indicate the times a word was pronounced refer to the pronunciations of different speakers. Repetition of a word by the same speaker was not recorded in this study.

A few of the many interesting and notable observations on the pronunciations of the speakers have been chosen for comment. They are illustrative of certain characteristics of speech which the writer believes are fairly general in American-English. Among the variations to be noted are these:

I. The vowel a in the words after, asked, can't, class, half, last, pass and past was pronounced 94 times. Both æ and a were used in all of the words, and a was heard in every word except after. Table I shows the frequency and percentage of occurrence of each sound. Other variations of these sounds, such as nasalization and glottalization, will be discussed later.

I. Pronunciation of words with the variants æ, a, a

Word	Times pronounced	æ	a	α
after asked can't class half last pass past	IO IO I5 I0 I2 I1 I4 I2 I2	5 4 8 3 7 7 9 7	5 5 6 4 4 3 4 3	I
Total Percentage	94	50 (53)	34 (36)	10 (11)

2. The diphthong represented in the spelling by ou and ow was heard in *about, council, house, how, now, our* and out 165 times. The following variants were used: $\mathbf{z}\mathbf{v}$, $\mathbf{z}\mathbf{\tilde{v}}$, $\mathbf{a}\mathbf{v}$, $\mathbf{a}\mathbf{\tilde{z}}$, $\mathbf{\tilde{z}}$, $\mathbf{\tilde{z}$, $\mathbf{\tilde{z}}$, $\mathbf{\tilde{z}}$, $\mathbf{\tilde{z}}$, $\mathbf{\tilde{z}}$, $\mathbf{\tilde{z}$, $\mathbf{\tilde{z}}$, $\mathbf{\tilde{z}$, $\mathbf{\tilde{z}}$, $\mathbf{\tilde{z}}$, $\mathbf{\tilde{z}}$, $\mathbf{\tilde{z}$, $\mathbf{\tilde{z}}$, $\mathbf{\tilde{z}}$, $\mathbf{\tilde{z}$, $\mathbf{\tilde{z}}$, $\mathbf{\tilde{z}}$,

II. Pronunciation of words with the variants æv, av, av

Word	Times pronounced	æບ, æ ັ ບັ	aບ, ãῦ	αυ, ãõ
about	26	2	II	13
council	12	2 ÃŨ	6-2 au 4 ãữ	4-3 αυ Ι ᾶῦ
house	20	I	10	9
how	II		6	5
now	29	2 æ̃ũ	20-7 au	7-6 av
		X	12 ãữ	IÕI
· · · · ·			I ai	
our	33	5	10-5 au	18–8 av
			2 aə	4 aə
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 aરુ	6 аә.
out	34	3	18–16 au	13-11 au
-			I аә	2 ai
			Iar	
Total	165	15	81	69
Percentage		(9)	(49)	(42)

III. Pronunciation of words with the variants a+, a, p, p

Words	Times pronounced	a⊧, ã	α, ᾶ	ΰ, ΰ	Э
congress	10	Ιã	7−2 a 5 ã	2-I D I Ď	
conservation	IO		8	2	-
democracy	12	I	8	3	-
dollar	13	2	6	5	-
economic	IĞ	2	8	6	-
got	15	3	8	4	-
long	13	<u> </u>	-	3	10
not	34	5-2 a⊦ 3 ã	19–12 a 7 ã	10	-
office	12	-	5	4	3
often	IO	-	3	5	2
operate	IO	3	5	2	-
opportunity	12	2	6	4	-
policy	IO	I	5	4	-
politics	IO	2	5	3	-
possible	13	2	7	4	-
probably	12	I	7	4	
problem	23	2	15	6	-
responsibility	II	ıа	7-3 a 4 ã	3	-
Total	246	28	129	,74	15
Percentage		(11)	(53)	(30)	(6)

and percentage of occurrence of this vowel. Nasalization of this diphthong will be discussed in Section 12.

3. There were seven variant pronunciations of o in the words congress, conservation, democracy, dollar, economic, got, long, not, office, often, operate, opportunity, policy, politics, possible, probably, problem, responsibility: a_{+} , \tilde{a} ; a, \tilde{a} ; p, \tilde{p} ; and p. Table III shows the frequency and percentage of occurrence of the sounds. Often was pronounced by two different speakers with p. The same speakers were the only ones to put a t in the word, and call it often.

4. Of the many words represented in the written form by oar, or, ore, oor, our, which were used by the speakers, only three were heard frequently enough to be listed here. These were before, more and resources. The most common pronunciation in these words, which were pronounced 63 times, and in fact in all of the words in this group, was or. or, or, or were also heard. Table IV indicates the frequency and percentage tabulations of these sounds. None of these words was recorded with the pronunciation or.

IV. Pronunciation of words with the variants oo, oo, oo, oo, oo

Word	Times pronounced	09	094	ЭЭ	D 94
before	16	4	9	3	-
more	34	9	16	6	3
resources	13	4	5	2	2
Total	63	17	30	11	5
Percentage		(27)	(48)	(18)	(8)

5. The words attitude, duty, education, institution, new, New York, opportunity and students show an interesting variation in the pronunciation of the vowel written *u*, *ew*, which occurred 112 times. It was pronounced **u**, **ü** and **ju**, **jü**, **jo**. Table V represents the frequency and percentage of occurrence of these sounds. The predominance of **u** over **ju** is noticeable generally in American-English, in spite of the attempts of the purists to establish **ju** as preferable.

V. Pronunciation of words with the variants u, ju

Word	Times pronounced	u, ü	ju, jü, jo
attitude	IO	6	4
duty	I2	7	5
education	I9	13	6
institution	I4	8	7-5 ju
new	20	13–5 u	2 jü
New York	10	4	6
opportunity	12	8	4
students	15	10	5
Total	112	69	43
Percentage		(62)	(38)

6. The vowels 3 and r, indicated in the written form by ear, er, ir, or and ur, were both heard in all of the following words: certain, church, first, further, learn, word, work|er, world. Table VI shows the frequency and percentage of occurrence of these sounds. The symbol r represents a retroflexive or retracted middle vowel that is very common in the stressed syllables of these and similar words, as they are spoken by many speakers from every section of the country.

VI. Pronunciation of words with the variants 3, 3

Word	Times pronounced	3	3,
certain church first further learn word word work er world	II 10 21 12 10 15 20 19	5 4 9 4 3 5 6 8	6 6 12 8 7 10 14 11
Total Percentage		44 (37)	74 (63)

7. The relative frequency of pronunciation of the retroflexive or retracted unstressed vowel \Im and the unstressed mid-vowel \Im shows a striking resemblance to that of the vowels \Im and \Im in stressed syllables. These unstressed vowels, having the written forms *ar*, *er* and *or*, were heard in the following words: *after*, *author*, *conservation*, *dollar*, *further*, *government*, *however*, *member*, *order*, *over*, *worker*. Table VII lists the words according to frequency and percentage of the total of each sound.

VII. Pronunciation of the unstressed vowel in words with ar, er, or

Words	Times pronounced	ə	æ
after	IO	5	5
author	16	3	13
conservation	IO	2	8
dollar	13	4	9
further	12	4	8
government	21	12	9
however	13	4	9
member	IO ·	3	7
order	12	5	7
over	IO	5	5
worker	IO	4	6
Total	137	51	86
Percentage		(37)	(63)

297

8. Other vowels in unstressed syllables were classified according to their position in the word as initial, medial, or final.

(a) The words with initial unstressed vowels which were heard frequently enough to be recorded were *because*, *before*, *believe*, *develop*, *enough*, *resources*, *responsibility* and *security*. The words were pro-

VIII. Other vowels in unstressed syllables, initial, medial, final

Word	Times pronounced	i	і, ї		Э
I. Initial because before believe develop enough resources responsibility security	17 16 17 11 11 13 11 12	4 2 1 - 3 1 -	6 5 1 6 5 4 4 5		7 9 15 5 6 6 7
Total Percentage	108	11 (10)	36 (33)		61 (57)
		Medial vowel omitted	І, Ї		Э
2. Medial America community definite ly family individual institution policy political principle responsibility security university	13 10 13 18 12 14 10 16 10 11 11 12 16	- - - 3 7 - - - - - - - - - - - - - - -	4 2 3 4 1 4 2 5 3 1 3 4		9 8 7 11 10 8 11 5 10 9 8
Total Percentage	155	16 (10)	36 (23)		103 (67)
			І, Ї	3	ə
3. Final business congress office possible service united	13 10 12 13 26 10		6 1 4 4 8 4	- I - -	7 8 8 9 18 6
Total Percentage	84	_	27 (32)	I (I)	56 (67)

OF PHONETIC SCIENCES

nounced 108 times, with the variants i, I, I and a. Table VIII shows the words recorded with frequencies and percentages of occurrence noted.

(b) The words with medial unstressed vowels showed the same predominance in favour of the neutral vowel \ni as did those with initial unstressed syllables. The words used were America, community, definite *ly*, family, individual, institution, policy, political, principle, responsibility, security, university, and they occurred 155 times. Table VIII indicates frequencies and percentages of occurrences of these unstressed medial vowels.

(c) The final unstressed syllable in the words business, congress, office, possible, service and united showed a further preponderance of \Rightarrow over 1 in the vowel sound. There was one example of ε , in the word congress. Table VIII gives the data on this vowel in the final unstressed syllable.

9. As is indicated in Table VIII the medial vowel in unstressed syllables was frequently omitted. Such was the case in the words *definite*|*ly*, *different*, *family*, *history*, *interest*, *natural*, *probably*, *university*. Table IX indicates the number of occurrences of the words pronounced without the medial vowel, with frequency and percentage of vowels omitted indicated.

IX. Omission of unstressed medial vowels

Word	Times pronounced	Vowel omitted
definite ly	13	3
different	14	7
family	18	7
history	13	10
interest	15	8
natural	14	5
probably	12	4
universitv	16	4
Total		48
Percentage		(42)

10. A marked tendency toward centralization of both the "front" and "back" vowels in stressed syllables has been noted recently in American-English. This tendency was illustrated in the speech of the speakers studied in the stressed syllables (and generally in the unstressed, too, unless they are already pronounced with the neutral vowel **ə**) in the following words: America, bill, books, bring, built, city, different, during, food, give, hope, institution, introduce, know, least, little, means, new, only, school, teaching, three, weeks, well, will. Table X records the data on this trend in vowel pronunciation. It is quite likely that this centralizing tendency is accompanied by relaxation and lowering of the active part of the tongue. The acoustic results seem to indicate that this is so, but it has not been practicable to consider the matter in this study.

300

X. Centralized vowels in stressed syllables

Word	Times pronounced	Times centralized
America	13	6
bill	II	5
books	II	4
bring	14	6
built	IO	5
city	IO	5
different	14	8
during	IO	5
food	II	6
give	IO	6
hope	IO	5
institution	14	6
introduce	IO	5
know	IO	5
least	IO	5
little	15	8
means	13	6
new	20	IO
only	19	IO
school	IO	6
teaching	II	5
three	12	7
weeks	I4	8
well	15	8
will	IO	7.
Total Percentage	307	157 (51)

XI. Insertion of a glottal stop before vowels

Word	Times pronounced	Glottal stop inserted	
after	IO	6	
asked	IO	9	
attitude	IO	8	
economic	16	7	
education	19	12	
even	19	II	
every	23	IO	
interest	15	12	
office	12	8	
often	IO	8	
operate	IO	7	
opportunity	12	IO	
our	33	20	
out	34	23	
Total Percentage	233	151 (65)	

OF PHONETIC SCIENCES

XII. Pronunciation of words with nasal consonants

Word	Times pronounced	Vowel nasalized, nasal consonant pronounced	Vowel nasalized, nasal consonant omitted
attention	IO	4	2
CONGVESS	IO	4	3
council	12	4	3
down	II	5	· · · · · · · · · · · · · · · · · · ·
interest	15	5	2
kind	II	4	I
man	12	5	I J
manv	23	7	- '
men	19	6	3
mind	12	6	I
not	34	IO	
20070	29	14	
principle	10	3	2
brogramme	20	8	-
vesponsibility	II	3	2
science	IO	3	3
thing	IO	4	I
think	12	4	3
time	18	5	2
Total	289	104	29
Percentage	_	(35)	(10)

XIII. Omission of final consonants

Word	Times pronounced	Final consonant omitted	
almost	10	4	
around	II	4	
asked	IO	4	
can't	15	4	
depend	IO	4	
fact	II	6	
find	II	5	
five	IO	5	
government	21	IO	
hand	12	5	
interest	15	7	
kind	II	4	
most	23	14	
school	IO	4	
subject	12	9	
well	15	9	
Total	207	98	
Percentage		(45)	

OF PHONETIC SCIENCES

302 PROCEEDINGS OF THE INTERNATIONAL CONGRESS

II. The consonant ?, called the glottal stop, was heard very frequently before initial stressed vowels in the speech recorded. The following words, which were listed 233 times, were illustrative of the repeated occurrence of the sound throughout the records of many of the speakers: after, asked, attitude, economic, education, even, every, interest, office, often, operate, opportunity, our, out. Table XI presents the data on this consonant.

12. The nasalization of vowels was referred to in Sections 2 and 3, where the presence of nasalized vowels was noted in the pronunciation of numerous speakers. Those words have been listed with others to make a total of 289 pronunciations of words with various vowels which are followed by nasal consonants. The words listed are *attention*, congress, council, down, interest, kind, man, many, men, mind, not, now, principle, programme, responsibility, science, thing, think, time. Table XII records the words with frequencies and variations in pronunciation indicated.

13. The omission of other final consonants than the nasals, particularly t, d, v and l, was recorded for 45 per cent. of the words listed under this heading, or in 98 pronunciations out of 207. The words studied were *almost*, *around*, *asked*, *can't*, *depend*, *fact*, *find*, *five*, *government*, *hand*, *interest*, *kind*, *most*, *school*, *subject*, *well*. The data are recorded in Table XIII.

65. Dr H. E. PALMER (Tokyo): Some notes on the place of phonetics in Japan.

In connexion with the teaching of phonetics in Japan, there are notably two points which will be of interest to those taking part in this Congress. The first is that Japan is seemingly the only country in which phonetic theory and notation is looked upon as a normal part of the study of English (and other languages); and the second, that the Japanese are among those whose pronunciation of foreign languages is the least influenced by traditional orthography.

Dealing with the first point:

It is true that phonetic theory and notation is not specifically prescribed in the Department of Education regulations, but inasmuch as the examining bodies to whom the Department delegates its authority have for many years past included a phonetics test, no Japanese teacher can qualify for a teaching licence who is unable to satisfy his examiners in this regard. This in itself might not mean much if it were not coupled with the facts that phonetics is not an unpopular subject, and that there is practically no anti-phonetics feeling. I have had occasion to note that any lecture dwelling on the advantages of phonetics meets with little attention and is rather resented: the need for phonetics—theory, notation and practice—being taken for granted.

Although some twenty years ago the Webster diacritic system was in general vogue, to-day almost without exception the Japanese-English dictionaries include phonetic transcriptions of every word. This is largely due to the existence of the Jones *Dictionary*, and to the praiseworthy efforts notably of Dr S. ICHIKAWA and Prof. Y. OKAKURA, whose authority in matters phonetic is unquestioned. Much credit also is due to the wisdom and farsightedness of the leading publishing firms, their authors and advisers. When in 1901 Mr P. A. SMITH, a revered American teacher of English, introduced phonetic theory and transcription for the first time (so far as I can ascertain and remember) at what is now the Hiroshima University of Literature and Science, the subject was either unknown, or at best looked upon as a fad; to-day the subject is so respectable that none dare or wish to ignore it. If an English or American passenger on a Japanese liner is known to be a language teacher, the table, cabin or bar steward may ask him to explain certain English pronunciation phenomena in terms of phonetic notation. In common with other radio broadcasters I frequently receive similar requests from listeners. Indeed, according to my experience, a foreign teacher in Japan who is ignorant of phonetic theory and transcription risks being regarded as a back number.

In many countries there is a difficulty about the printing of phonetic notation; the printers have not the types, and the typefounders are unwilling to provide them. Not so in Japan. Practically every phonetic type is obtainable at a moment's notice. My book, *The Principles of Romanization*, was set up in the workshop of a fifth-rate printer by compositors who knew no English—and this book required a printer's fount that would almost exhaust the resources of a Teubner.

Now dealing with the second point:

When one is asked: "What are the purposes to be served by phonetic notation?" the answer seems to be: Three main purposes, viz.

(I) To indicate unequivocally in dictionaries, and similar works of reference, what are the sounds contained in a given word. In other terms, to provide in a simple manner what used to be provided by complicated systems of diacritical marks or, worse, "imitated pronunciations" (of the type *zher swee* for French *je suis*).

(2) To serve as an instrument in the hands of a teacher who wishes to give systematic exercises in hearing and articulation; an instrument more easy to handle than the device of "Sound No. 1..., Sound No. 37..."; an instrument by which he can show objectively and with immediate results, e.g., the difference between the English words *seat* and *sit* as compared with the French word *site*, or, e.g., the difference between the English words *bus* and *bath* as compared with the Japanese word *basu*.

(3) To react against the tendency to pronounce foreign spellings as if they were spellings of one's mother tongue. I don't believe that any Englishman would pronounce the French word *pain* as the English word *pain*, but I do know that the average Frenchman pronounces, e.g., Southampton Row in a way that sounds to us Sootangtong Roff.

Now, so far as Purpose I is concerned, the Japanese use phonetic notation on an extensive scale. They see the word *thoroughly* in