이 있는 것이 있다. 같은 것은 것이 있는 것이 같은 것이 같은 것이 있는 것	
Journal of Educational Psychology	Copyright 1984 by the
<u>.</u>	
	{
·	
	•
n	
<u></u>	
. k	
X	
<u></u>	
<u>Dimensionality. Reliability. Validity.</u>	Potential Blases.
and Utility	· · · ·
Herbert W. Marsh	· · · ·
<u> </u>	,

	708 HERBERT W. MARSH						
	ofteeshe	ma and atuidanta).	rt nomiables	different annua al	This		
1	P. De Ie	BODAU (II) CARADO D GUALA					
11 A 5,5							
1 - 1 Ja.)							
L							
-							
•							
: 							
· 7 <u>57 - 7</u>							
	<u> </u>	dine mlanaical and in		<u> </u>		.1 / 1	
<u> </u>							
1							
Ţ							
- ,,							
<u>}</u>							
t n							
, <u> </u>							
•							
	نے *						



ľ

ġ,

Ŷ					
4					
ŗ					
ار					
•					
				· · ·	
pana in the manage and do	valammant of	the mitaria	hoing considered	(March 9	
1					
- h -					
• <u>•</u> ••••••••••••••••••••••••••••••••••					
n					
· · · · · · · · · · · · · · · · · · ·					4
<u>المعامة المعامة المعام</u>	·				
1				2	
۹ •					
• •					
				agi v	
ب ه ر ا					
<u> </u>					
1					

	F		· · · ·		
•	ς			,	
. ' -		,			
		1			
· · · · · · · · · · · · · · · · · · ·		<u>ه ۱ د</u>		• • • • · · · · · · · · · · · · · · · ·	· =1000 -
		· · ·			
					•
				1	
(
*					
,					
		1			
		#]			
<u> </u>					
<u>.</u>					
e					
	<u> </u>				_

Table 1

Factor Analyses of Students' Evaluations of Teaching Effectiveness (S) and the Corresponding Faculty Self-Evaluations of Their Own Teaching (F) in 329 Courses

Factor pattern loadings 1 2 3 4 5 6 7 8 9 Finalization itome (naranhracod) F. E. F. F F F. F C. F____ C C C C. C Q 1. Learning/Value 10 9 Ē.

alizable (e.g., a teacher who was judged to be well organized but lacking enthusiasm in one course was likely to receive a similar pattern of rations in other classes) These findings

		F	10	74 86 32 46	dent were
	6	S	88	85 88 62 73	s of stu alyses

\		
* 1 <u></u>		
- 1		
Section and		
		•
iy <u>, iy</u> -		
۱ <u>. </u>		
1		
1-		
-	•	
1		
L-=		
f		
6		
14		
1		
_ 1 -		
·		
<u>نه</u>		
<u></u>		
`		
_		
-		
۰ <u> </u>		
. <u> </u>		
11 1		
{ =		
<u> </u>		
£		
من ور (þ	a
1.1		

1		, <u>, , , , , , , , , , , , , , , , , , </u>	- n 1, uan 1 i.	· • • • • • • • • • • • • • • • • • • •		 714
					¢ ج.اسه.	
<u>¶</u>						
Г						1
,						l
/ -						ļ
<u>.</u>						
к):						
*	,			<i>}</i>		
÷						

·	· · · · · ·	
		<u>7</u> 17
	0 .	
-		
ŧ,		
.1		
-		
-		-
6 . ·		
2.		
(f		
)£ ,		
· •		
		1
ζ		
4		
4 • • • • • • • • • • • •		
· · · · · · · · · · · · · · · · · · ·		
	,,	
	(
۰		
		4

n Maria Maria Maria Maria Mandriana (Maria) na mana kata kata kata kata manana manana manana kata kata kata ma Maria Maria Maria Maria Maria Maria



	the second se
.	A
	<u>/</u> }
	k
e	
	
••	
f	rom 25 students, 74 from 10 students, 60 Marsh & Overall, 1979a) demonstrated that
f	rom five students, and only .23 for one stu-
<u>л</u>	
4	I
· 9.	
<u>k </u>	

HERBERT W. MARSH

Background Characteristics				,
Measure	Same teacher, same course	Same teacher, different course	Different teacher, same course	Different teacher, different courses
	<u> </u>	* ··*	·· <u></u>	· · · · · · · · · · · · · · · · · · ·
3 77				
				·
<u>k</u>				
Enthusiasm Organization/Clarity	.734	.613 540	.011	.028
Group Interaction	.699	.540	.291	.224
Individual Rapport	.726	.542	.180	.146
Breadth of Coverage	.727	.481	.117	.067
Examinations/Grading	.633	.512	.066	004
Assignments	.681	.428	.332	.112
Workload/Difficulty	.733	.400	.392	.215
Overall course	.712	.591	011	065
Overall instructor	.719	.607	051	059
Mean coefficient	.707	.523	.140	.061
Background characteristic		,		
· · · ·				
2				
,				
7				
Reason for taking course (percent indicating				
general interest)	.770	.448	.671	.383
Class average expected grade	.709	.405	.483	.356
Workload/difficulty	.773	.400	.392	.215
Course enrollment	.846	.312	.593	.058
Percent attendance on day evaluations				
administered	.406	.164	.214	.045
Mean coefficient	.690	.340	.491	.211

Table 3 Correlations Among Different Sets of Classes for Student Ratings and

718

lidity. The most widely accepted criterion of effective teaching is student learning, but other criteria include changes in student behaviors, instructor self-evaluations, the evaluations of peers and/or administrators who actually attend class sessions, the fremency of occurrence of specific behaviors

720

First, the ratings were not of the instructor in charge of the course but of teaching assistants who played a small ancillary role in the actual instruction. Thus, there was no way to separate achievement produced by a teaching assistant from that due to the instructor: a student who put too much reli-

			4
<u> </u>			
<u>.</u>			
۱ <u>. </u>	approximate her trained absorber and the of	and on the teaching essistant at the opprane	
·			
- 1			
5		(
		(
		(
		(
		(1
		(
		(
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			1 1 1 1
	fects of experimental manipulations.	of lectures by the instructor might evaluate the assistant highly and perform poorly on	i 1 1 1







Table 4Multitrait-Multimethod Matrix:Correlations Between Student and Faculty Self-Evaluations in 329 Courses

F

٤...

7,

100

٠.

2 ----

			Instr	uctor se	elf-evalu	ation fa	ctor					St	udent e	valuatio	on facto	r			
Factor	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
Instructor self-evaluations 1. Learning/Value 2. Enthusiasm 3. Organization 4. Group Interaction 5. Individual Rapport 6. Breadth 7. Examinations 9. Automatic	(83) 29 12 01 -07 13 -01	(82) 01 03 -01 12 08	(74) -15 07 13 26	(90) 02 11 09	(82) -01 15	(84) 20	(76)											-	HERBERT
										٢									

+____

(1975) compared peer ratings based on classroom visitation and student ratings at a brand new university, thus reducing the probable confounding of the two sources of information Three different neers evaluless sensitive, reliable, and valid; (2) more threatening and disruptive of faculty morale; and (3) more affected by non-instructional factors such as research productivity" (p. 45) than_student ratings

. P		
· ·		
ر ئے	, · · · · · · · · · · · · · · · · · · ·	
	۶	
57		
ſ		
ί - ι		
ы́с		
	was a relative lack of agreement among peers Behavioral Observations by External	
	(paper n. m. DE which being into acception Of	
	,	
,		
ł١.		
		1
*** <u>*</u> -		
1		i and a second se
Ł	their value as a criterion of effective teaching	
•		
<u> </u>		



Clarity mlated			<u> </u>
	<u> </u>		
correlated with		spect the research conducted on teacher	
correlated with	student ratings and with	spect the research conducted on teacher	יינ
rarelated with	n student ratings and with	enect the research conducted on teacher	
correlated with	n student ratings and with	snect the research conducted on teacher	
rarrelated with	n student ratings and with	spect the research conducted on teacher	
ngrpelated with	n etudent ratings and with	spect the research conducted on teacher	
rarrelated with	n student ratings and with	spect the research conducted on teacher	
r <u>orrelated with</u>	n student ratings and with	spect the research conducted on teacher	
rar <u>elated with</u>	n student ratings and with	spect the research conducted on teacher	
rpr <u>related witt</u>	n etudent ratinge and with	enect the research conducted on teacher	ייב
nrrelated with	n student ratings and with	spect the research conducted on teacher	
rpr <u>elated witt</u>	n etudent ratinge and with	enert the research conducted on teacher	קב קב
correlated with	n student ratings and with	enect the research conducted on teacher	
correlated with	n student ratings and with	enert the research conducted on teacher	
<u>nprpelated with</u>	1	snect the research conducted on teache	
Correlated with	1	enect the research conducted on teacher	
<u>Anna 1</u>	n student ratings and with	enect the research conducted on teacher	
	tudent ratings and with	spect the research conducted on teacher	

727



728

Ŧ

	risis
ه د ا	
f 1	
4	
-	
تقمير) متصحيرا	
	<u>1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1</u>
	 F
AT.	
·	

validity, are so willing to accept other indicators that have not been tested or have been shown to have little validity. course (e.g., class size, content area, students' interest in the subject, etc.) and to rate the "ease of teaching this particular course." These ratings of ease-of-teaching (see Table 6) were not significantly correlated with any of the student rating factors and were nearly

Relation to Background Characteristics:

\$						
-			lta			
			1)		
4						
7						
7						
£						
r −		 		- 1 F	<u>ı</u>	1.—
<u></u>						
<u></u>		 		 		z
• _						
;						
t						
<u>. 1. ::</u> sa						
ι ι	`	 				
7						
ļ						



Figure 2. Path analysis model relating prior subject interest, reason for taking course, expected grade, and Workload/Difficulty. (Path coefficients for the student rating factors appear in Table 5.)

pinilar hask mound above atoristics of hours ganaral interest only A noth analysis (and



	·							
	L							
1.1								
	7 10 1	<u></u>	IT., D.,	/01	<u> </u>	· · .1	TT7 TY71_1	1.21
				Fact	tor	<u></u>		
Grade and Work	load/Difficu	ilty to Stu	dent Ratir	1gs				
,								
í								

732

	l ll l	<u></u>	
.	12		
<u>#</u>			
•			
ະ ຮ.	• 27 		R
	from correlations obtained when the analysis constructions is performed on responses by individual of students. Hence, effects based on individual the students of the student	onstitutes a bias. Alternative definitions f bias, which are generally implicit rather nan explicit, are described below.	
	from correlations obtained when the analysis constructions of the second students. Hence, effects based on individual the second students and the second students are been as the second students are been as the second students.	onstitutes a bias. Alternative definitions f bias, which are generally implicit rather nan explicit, are described below.	
	from correlations obtained when the analysis constructions of the second students. Hence, effects based on individual the second students and the second students are been as the second stude	onstitutes a bias. Alternative definitions f bias, which are generally implicit rather nan explicit, are described below.	
	from correlations obtained when the analysis co is performed on responses by individual of students. Hence, effects based on individual the students of the second descent des	onstitutes a bias. Alternative definitions f bias, which are generally implicit rather nan explicit, are described below.	
	from correlations obtained when the analysis co is performed on responses by individual or students. Hence, effects based on individual the students of the second descent descent students and descent descen	onstitutes a bias. Alternative definitions f bias, which are generally implicit rather nan explicit, are described below.	
	from correlations obtained when the analysis constructions of the second students of the second students. Hence, effects based on individual the second students is the second students in the second students is the second students.	onstitutes a bias. Alternative definitions f bias, which are generally implicit rather nan explicit, are described below.	
	from correlations obtained when the analysis constructions of the second students. Hence, effects based on individual the second students with the second students.	onstitutes a bias. Alternative definitions f bias, which are generally implicit rather nan explicit, are described below.	
	from correlations obtained when the analysis constructions of the second students. Hence, effects based on individual the second students is the second students.	onstitutes a bias. Alternative definitions f bias, which are generally implicit rather nan explicit, are described below.	
	from correlations obtained when the analysis constructions of the second students. Hence, effects based on individual the second students is the second students in the second students in the second students is the second students in the second students is the second students in the second students in the second students is the second students in the second students in the second students is the second students in the second students in the second students is the second students in the second students in the second students is the second students in the second students in the second students is the second students in the second students in the second students is the second students in the second students in the second students is the second students in the second students in the second students is the second students in the second students	onstitutes a bias. Alternative definitions f bias, which are generally implicit rather nan explicit, are described below.	
	from correlations obtained when the analysis constructions of the second students. Hence, effects based on individual the second students is the second students in the second students in the second students is the second students in the second students in the second students is the second students in the second students in the second students is the second students in the second students in the second students is the second students in the second students in the second students is the second students in the second students in the second students in the second students is the second students in the second students	onstitutes a bias. Alternative definitions f bias, which are generally implicit rather han explicit, are described below.	
	from correlations obtained when the analysis constructions of the second students. Hence, effects based on individual the second students is the second students in the second students in the second students is the second students in the second students is the second students in the second students in the second students is the second students in the second students in the second students is the second students in the second students in the second students is the second students in the second students in the second students is the second students in the second students in the second students is the second students in the second students in the second students is the second students in the second students in the second students in the second students in the second students is the second students in the second students	onstitutes a bias. Alternative definitions f bias, which are generally implicit rather han explicit, are described below.	

	734			HERBERT	W. MARSH	
	ence.	For	example, even	though student	defining bias by statistically controlling for	
	<u>Len uniu</u> 11	rie	<u></u>	<u>aliditer atradian in</u>	matential bisses with multiply remared	_
			L			
						-
-						
· · ·						
				3		
	correlat	ted v	with student rat	tings this effect	techniques or by forming normative (cohort)	
	should	not	be considered a	bias. However,	groups that are homogeneous with respect	
	<u> </u>	··•	<u>, , ,</u> , , ,	مُ الشاك		
****						_
Ś						
		r				





HERBERT	W.	MARSH
---------	----	-------

, .	of correlations between a specific variable	was moderately correlated with Group In-	
· .	A'		
) F			
۰.			
1.			
<u>L',</u>			
<u>, </u> .			
·			
•			
· ·	- 1 <u></u>		
·			
<u></u>	PA		
	**		
<u>. </u>	p		
Ľ			
,			
1			

ţ,

very large classes can free up enormous amounts of instructional time that can be used to substantially reduce the average class size in the range where the effect of class size

onstrated success in such settings: (b) stu-

dents systematically selecting classes taught

the student ratings and instructor selfevaluations. Higher student interest in the subject apparently creates a more favorable loarning anvironment and facilitates offer

supposition that Workload/Difficulty is a

notantial hige to student ratings higher

does appear to be negative. However, I tive teaching, and this effect is reflected in (Marsh, Overall, & Kesler, 1979a) argued student ratings as well as faculty self-evalthat my correlational effect should be inuations. terpreted cautiously and speculated that the Workload/Difficulty. The Workload/ unexpectedly higher ratings for very large Difficulty effect on students' evaluations was classes could be due to (a) the selection of also one of the largest found (Marsh, 1980b, particularly effective instructors with dem-1983) Paradoxically at least based on the

738

--- - -

		Table 6			. 11 T	<u></u>	
		&					
	1		د.				
Octor Two Tr 0 194 Tr 106 000 Tr 0 184 Tr/ Pretor TO 000 Tr or Tr 3 10 Tr (ETN (actua) TO 000 R(a)) Tr 0 583 Tw 99.557 180.178 LearTr 0.000 0.000 n 184 Tr (Ratim) TO 000 RTR (07 F83 Tr 10.000 Tr or Tr 3 10 Tr (ETN (actua) TO 000 R(a)) Tr 0 583 Tw 99.557 180.178 LearTr 0.000 0.000 n 184 Tr (Ratim) TO 000 RTR (07 F83 Tr 10.000 Tr or Tr 3 10 Tr (ETN (actua) TO 000 R(a)) Tr 0 583 Tw 99.557 180.178 LearTr 0.000 0.000 n 184 Tr (Ratim) TO 000 RTR (07 F83 Tr 10.000 Tr or Tr 3 10 Tr (ETN (actua) TO 000 R(a)) Tr 0 583 Tw 99.557 180.178 LearTr 0.000 0.000 n 184 Tr (Ratim) TO 000 RTR (07 F83 Tr 10.000 Tr or Tr 3 10 Tr (ETN (actua) TO 000 R(a)) Tr 0 583 Tw 99.557 180.178 LearTr 0.000 0.000 n 184 Tr (Ratim) TO 000 RTR (07 F83 Tr 10.000 Tr or Tr 3 10 Tr (ETN (actua) TO 000 R(a)) Tr 0 583 Tw 99.557 180.178 LearTr 0.000 0.000 n 184 Tr (Ratim) TO 000 RTR (07 F83 Tr 10.000 Tr or Tr 3 10 Tr (ETN (actua) TO 000 R(a)) Tr 0 583 Tw 99.557 180.178 LearTr 0.000 0.000 n 184 Tr (Ratim) TO 000 RTR (07 F83 Tr 10.000 Tr or Tr 3 10 Tr (ETN (actua) TO 000 R(a)) Tr 0 583 Tw 99.557 180.178 LearTr 0.000 0.000 n 184 Tr (Ratim) TO 000 R(a) Pretor Tr 0 583 Tw 99.557 180.178 LearTr 0.000 Tr or Tr 3 10 Tr (ETN (actua) Tr 0 583 Tw 99.557 180.178 LearTr 0.000 Tr or Tr 3 10 Tr (ETN (actua) Tr 0 583 Tw 99.557 180.178 LearTr 0.000 Tr or Tr 3 10 Tr (ETN (actua) Tr 0 583 Tw 99.557 180.178 LearTr 0.000 Tr or Tr 3 10 Tr (ETN (actua) Tr 0 583 Tw 99.557 180.178 LearTr 0.000 Tr or Tr 3 10 Tr (ETN (actua) Tr 0 583 Tw 99.557 180.178 LearTr 0.000 Tr or Tr 3 10 Tr (ETN (actua) Tr 0 583 Tw 99.557 180.178 LearTr 0.000 Tr or Tr 3 10 Tr (ETN (actua) Tr 0 583 Tw 99.557 180.178 LearTr 0.000 Tr or Tr 3 10 Tr (ETN (actua) Tr 0 583 Tr 10 583 TW 99.557 180.178 LearTr 0.000 Tr or Tr 3 10 Tr (ETN (actua) Tr 0 583 TW 99.557 180.178 LearTr 0.000 Tr or Tr 3 10 Tr (ETN (actua) Tr 0 583 TW 99.557 180.178 LearTr 0.000 Tr or Tr 3 10 Tr 10 100 Tr 0 583 TW 99.557 180.178 LearTr 0.000 Tr or Tr 3 10 Tr 0 583 TW 99.557 180.178 LearTr 0.000 Tr or Tr 3 10 Tr 10 100 Tr 0 583 TW 99							
0000 Teto TE 0 124 Tet IoS 000 Te 0 124 Tet Derive TE 0000 Teto TE 210 TetETS((actua) TE 0000Rtat) TE 0 557 180, 178 LearTE 0.000 0.000 n 184 Tet Ratin) TE 0000Tt 002 TE 3 Tr 10.000 T							
							3)
		$0.000 T_{0}(s) T_{1} 0.124 T_{11}$	1.06 0.00 Tz 0 194 To/ Datin) Ti0 0.00 To(a)	<u>T: 310 Tc(ET8((actua) Ti0.000RTc(</u>	1 Ti-0.503 Tw99.557180.178 LearTr	0.000 0.000 n.184 Tc(Ratin) Ti0.000TT	0.022ii13 Tr10.000 T
							
							1
							•
		1					
Student	<u> </u>						
Student	i -						j
	Student						

<u>م معالم محمد الم محمد الم محمد الم محمد الم محمد ما محمد محمد محمد محمد محمد محمد </u>	19
······································	
2 . New	·
-	
il ta	i
L. , 	
۲	
-	4
·•	
<u></u>	
······································	

	Marsh, Fleiner, and Thomas (1975) and Marsh and Overall (1980) examined class- average pretest scores, expected grades,	each class who received grades and those who did not, and there was substantial agreement with evaluations by the two	
·····	<u>1 · }1 ·</u> · · · · · · · · · · ·		=
<u> </u>	A		
۲.			
			_
1			
X			
<u> </u>			
1			
1			
a			_
	v		
	4i 		
{I			
			i
<u>. </u>			
			_
4 - 4			
		<u>ــــــــــــــــــــــــــــــــــــ</u>	
f			
	··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··		
н. ₁₉	pultionation validity studios described ear-	algee-guerage aredeelet these atudantalube	
. <u>[``</u>		- 11	
¥			
			-
			4
` x '			-
<u> </u>	· ·		
-			1

below) in which grading standards were ex-	1
perimentally manipulated. Groups of stu-	
dents viewed a videotaped lecture, rated	
tonshow affantionnan and task on chiestin	
- T	

ratings, support for this suggestion is weak and the size of such an effect is likely to be insubstantial in the actual use of student

Ê		
• • • . 1"		
1		
İΓ		
-		
. <u> </u>	· ,	
<u> </u>		
,		
man an an		
- =		
1		
h	(
7		
<u> </u>		•
		1
F		4
·		
,	prozentrizion their examination regults and a contract of the state of	

HERBERT W. MARSH

	Background Characteristic	Summary of "Typical" Findings
		······································
		I
-	7	
	· <u>w</u> a	
· ·		
·	ł	
, d		
	• #	
_		
		it is not always clear if interest existed before the start of course or was generated by the instructor.
	Expected/actual grades	it is not always clear if interest existed before the start of course or was generated by the instructor. Classes expecting (or actually receiving) higher grades give somewhat higher ratings though this can be interpreted to mean either that higher
	Expected/actual grades	it is not always clear if interest existed before the start of course or was generated by the instructor. Classes expecting (or actually receiving) higher grades give somewhat higher ratings, though this can be interpreted to mean either that higher
	Expected/actual grades	it is not always clear if interest existed before the start of course or was generated by the instructor. Classes expecting (or actually receiving) higher grades give somewhat higher ratings, though this can be interpreted to mean either that higher

<i>.</i>	and teaching effectiveness was evaluated.	in the way they were affected by the experi- mental manipulations. In the condition	
);			
	_		
			1
54			
1	propifically designed to bene little educe	maat libra tha university classication in which	
) -	-		
i			
<u>,</u>		<u> </u>	
<u>.</u>			
ī			
	16		
1			
1			
-			
• • -	• · _ •		
- - -			
	tional value. the ratings were favorable. The	students were told before viewing the lecture	

743

HERBERT W. MARSH

Consistent with the Marsh and Ware reanalysis, they also found that in the few studies that analyzed separate rating factors, the rating factors that were most logically related to the expressiveness manipulation were most affected by it. Finally, they tifaceted ratings in this article, a particularly powerful test of the validity of student ratings would be to show that each rating factor is strongly influenced by manipulations most logically associated with it and less influenced by other manipulations. This is

- 		
1 1	1.	
f		
- <u>1</u>		
۲ ۲۰۰۰ – ۲۰۰۰ – ۲۰۰۰ – ۲۰۰۰ – ۲۰۰۰ – ۲۰۰۰ – ۲۰۰۰ – ۲۰۰۰ – ۲۰۰۰ – ۲۰۰۰ – ۲۰۰۰ – ۲۰۰۰ – ۲۰۰۰ – ۲۰۰۰ – ۲۰۰۰ – ۲۰۰۰ –		
	-	y
	· · · · · · · · · · · · · · · · · · ·	
	manipulation did interact with the content manipulation and a host of other variables	reanalysis of the Dr. Fox data described above, and it offers strong support for the
ند. به		
21 4 317 - 2	1	



taped	lectures	seems	dubiou	s). '	Unfortu	-
natelv	the effe	erts of a	content	and	evnress	••

son-Rose & Menges, 1981). SEEQ has been used in two such studies using multiple sec-

3.5 - - ł

'the effect of consultation without feedback___ether_indicators of teaching affectiveness in (i.e., a placebo effect due to consultation. or evaluating total faculty performance in a real effect due to consultation that does not North American universities (for reviews see depend on feedback from student ratings). Centra, 1979; Leventhal et al., 1981; Seldin, Second, the criterion of effective teaching 1975). Each survey found that classroom riad to malineta the studies was limited primarilut Ì.

	able for subjects in these studies to assume that the explanation is report was at least	marized by a single score representing an
<u>.</u>		
ι, <u>-</u> ε		
ہے		
• 		
	mentially brand on students' maharitan	
-	partianv_based on students evaluations.	components of by the separate presentation
	These studies demonstrate the importance	of each of the multiple components, but
-	of reports of teaching effectiveness but do	there is no research to indicate which is most
1		
a fer al a		
	r	
•		

Ļ

	STUDENTS'	EVALUATIONS 749
Or P-	verview, Summary, and Implications	have a systematic voice in the interpretation of their student ratings.) Consequently,
	* •	
		<u>.</u>
4	and a distant of the second structure of the second	
inst	TATAL THAT STUMANT FOLINGE OF A MARTIN	COLOR OF OTHER WA, LOSONING OF OTODOSOG
		
	·	

relatively incontaminated by many evidence of the second state of

eventual is 1575), new are supported by eventuation research and none are as clearly

750	;	HERBERT	W. MARSH	
consid	erable base of resonance of resonance of the	earch from which to ir worth However_	on teaching. In N. L. Gage (Ed.), Handl search on teaching (pp. 171–246). Chica	book of re- go: Rand
	<u>ه م</u>			
÷	·	· · · ·		
·····				
	ŧ.			
				"
<u></u>				
_				
	12			
		-		
·				
ă.				
<u></u>				

	lege faculty. Journal of Higher Education, 46, 89-102. Marsh, H. W. (1977). The validity of students' eval-	man's "Consistency and variability among college students in rating their teachers and courses." <i>Re-</i> search in Higher Education, 10, 139–147.
- -		
	<u>-</u>	
<u>_/</u>		
7=		
L.	1	
j.		
) j		
. —		
کــــــَ		
•		
)		
-		
·		
<u>e</u>		
7		
-		
·	,	
	<u>.</u>	
	have been the set of the been been and the set of the s	· Long I I ·· I · I · · A ·····
•:		
	<u>م</u>	
I I		
<u>h.</u>		
I		
¥2		
·		

*

- 5

	lecturer expressiveness, and density of lecture content on student ratings. Journal of Educational Psy-	81-91. Price, J. R., & Magoon, A. J. (1971). Predictors of
	۹.	
	Menges, R. J. (1973). The new reporters: Students rate instruction. In C. R. Pace (Ed.), Evaluating learning and teaching. San Francisco: Jossey- Bass. Morsh J. E. Burgerse, G. G. & Smith P. N. (1956)	Proceedings of the 79th annual convention of the American Psychological Association, 7, 523-524. Remmers, H. H. (1963). Teaching methods in re- search on teaching. In N. L. Gage (Ed.), Handbook on teaching. Chicego: Rand MaNally
	<u>e</u>	
	Student achievement as a measure of instructional effectiveness Journal of Educational Psychology	Rodin, M., & Rodin, B. (1972). Student evaluations of teachers. Science, 177, 1164-1166.
_		
_		
	47, 79-88. Murrow H. G. (1976) How do good togehere togeh 2	Rosenshine, B. (1971). Teaching behaviors and stu-

. 3		
l		
/		
<u>с</u>		
l'		
r (
	AA	
		1
<u> </u>	(
]
,		
1		
<u> -</u>		
ī		
		- 4
۰.	۵. ۱	i
,		
•		
	Warrington, W. G. (1973). Student evaluation of in- struction at Mighigan State University In-A_J continue continue continue and the provide of the Decomposition of the provide of the pr	
4		
,		
1		
,		- 1
1		
		•
·		
<u></u>		
• •		
₹.		
-		
~ <u></u>		
<u>.</u>		
<i>k</i> —.		
	r	
·	r 	