

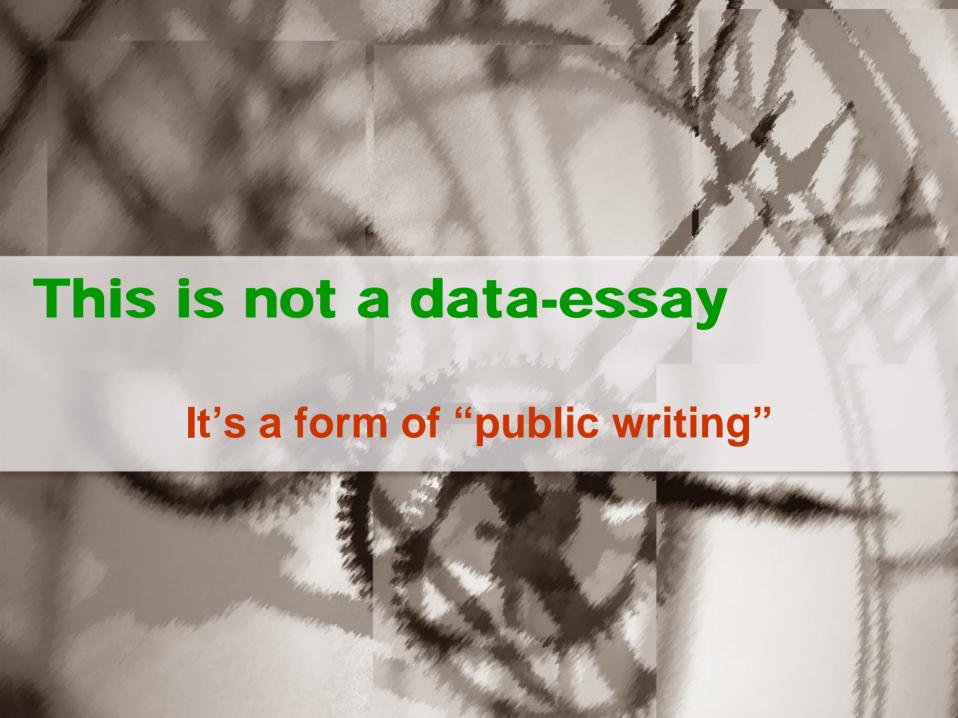
### Rules of Engagement

- If you have a question, interrupt at any time
- But please save the speeches for our interaction period
- You have some handouts to which I will refer, but which are for illustrative purposes in the story line---and later reading
- This collection of slides will be on the CAIR Web site.

----Cliff Adelman, Senior Associate, Institute for Higher Education Policy

### What we're going to do today

- Review the provenance and short history of the assessment movement in U.S. higher education
- Ask what assessment means and where it fits in current debates about accountability
- Bullet potential sources of information
- Consider some alternatives to what the Spellings Commission suggests we do



### The GRE History Area Test Question on the Battle of Lepanto

Which of the following was not a consequence of the Battle. . .

- a) The Turkish fleet ceased to be a threat to the Mediterranean Christian states
- b) Plans developed by The League to invade the Turkish Empire became more plausible
- c) The Turkish Empire was so weakened as to put it on the road to collapse
- d) Admiral Don John of Austria became a great hero among both sailors and emissaries to The League

#### **Historical markers**

- Competency-based experimental degrees of the 1970s
- Careering After College, the grounds of the Alverno model (1977-1983)
- Involvement in Learning, report of the last ED "commission" (1984)
- Performance and portfolios: the early years of the AAHE Assessment Forum (1987-1992)
- Hijacked by TQM: the middle years of the AAHE Assessment Forum (1993-1998)
- Assessment disappears: replaced by GRS

### Filling in between the markers

- The ACGE (grandmother of the CLA) and its mass-AASCU try-out (1975-80)
- Value-added, its testing vehicles (COMP), performance funding in Tennessee, and the total-assessment university (N.E. Missouri), 1980-1986
- The Standardized Test Scores of College Graduates, 1964-1982 (1985)
- High Stakes: Ability-to-Benefit 1989-95
- Early NPEC: exploration of a national assessment (1992-1994)

## And along the way, the literature explored

- External examiner models
- Model indicators of summative learning in the major
- The validity of student self-assessment
- Classic psychometric questions, e.g. cut scores, in new contexts
- Experimental measures for the study of creativity
- Uses of technology in testing

# And along the way, the states got into the act

- Tennessee, 1979—COMP required
- Florida, 1982---CLAST, a high stakes
- Colorado, 1985---legislative mandate
- Missouri, 1987---canonizing NE Mo
- New Jersey, 1988—college academic outcome, a homegrown
- Virginia, 1987---SCHEV mandate

## **Session topics in first 6 AAHE Assessment Forums**

Topic	#	Trend
In the discipline/major	<b>33</b>	Accel from yr 3
General education	<b>30</b>	Fade from year 5
Student development	<b>26</b>	Start in year 2
Methodology/Technical	<b>23</b>	Plateau in year 5
Classroom-based	<b>22</b>	Accel from yr 3
External accountability	16	Start in year 2
Institutional	15	Partner with QI
Quality improvement	14	Start in year 4
Value added	8	Fade from year 2

### Where were we by the early 1990s?

- Confused about the difference between assessment of student learning and institutional performance
- Mixing up assessment, testing, and evaluation
- Dealing with competing claims of a raft of commercial testing products (over 400 in the ETS annotated bibliography)
- Located principally in 2<sup>nd</sup> and 3<sup>rd</sup> rank institutions

#### **Avoidance behavior**

- It became a hallmark of the assessment movement to avoid the tension inherent in the judgment of individuals and full census reporting
- Instead, it embraced both the institution or the program as subject, and samples of performers representing the subject

In an age of accountability, what kind of problems does this preference raise?

## Bright spots of learning and their limitations

- Have you ever read an Alverno transcript? It is about student learning
- The ACGE: the virtues and difficulties of constructed response
- Performance assessment: the problem of task sampling variability
- Assessment as learning & the self-reflective instructor: heavy on form, light on content (exception: The Journal of Engineering Education)

We were trying!

## But then were overtaken by external currents . . .

- TQM, CQI, Baldridge Awards, and the culture of organizational performance
- SRK and the totem of graduation rates
- National Education Goals Panel
- The NGA's Education Summit and the momentum of "America 2000"
- ...and backed off. Assessment became an accountability movement, not a normative one.

# Accountable v. normative: GRE content representativeness

- Current curriculum v. Ideal curriculum v. tested curriculum in computer sci
- Software systems and methodology
- Computer organization and architecture
- Theory
- Computational mathematics
- Special topics, e.g. Al, graphics, data communication

## Fast forward to the Spellings Commission and its discontents

- Complains college graduates are illiterate, and cites NAAL data
- Cites second-hand reports of employer complaints about communication and problem-solving skills of recent college grad hires
- Cites complaints of Measuring Up that states have no systematic warrantee of the learning of college graduates
- So, recommends use of NAAL, CLA, NAEP and whatever else crossed the radar screen to at least provide value-added measures

## Slouching toward the Spellings Commission: the lead-ins, #1

- Measuring Up on College-Level Learning (2005), a.k.a the battle of the states, with an index composed of:
- Statewide NAAL

25%

- Licensure/teacher certification pass rates plus "nationally competitive scores" on GRE/GMAT etc.
- CLA for a sample of 4-yr students and Work Keys for a sample of 2-yr students 50%

This one wins the statistical gymnastics prize!

### Slouching. . .#2

- National Survey of American College Students (Jan., 2006), using NAAL on graduating 4yr and 2yr students, found:
- Both had higher scores than all adults
- Higher prose and document literacy scores than adults with similar education
- 4-yr scored higher than 2-yr across the board
- No differences by 4-yr type or selectivity
- Standard differences by family income and parental education

So what else is new?

# Pause: The NAAL has been rendered a core benchmark. So what's in it?

- Prose literacy, e.g. interpretation of brochures
- Document literacy, e.g. filling out a job application
- Quantitative literacy, e.g. completing an order form

In other words, life situation tasks in which general learned abilities are applied.

To what extent is this a valid measure of college student learning?

### Slouching toward. . .#3

- A Culture of Evidence: Postsecondary
   Assessment and Learning Outcomes (ETS,
   June 2006) proposes 4 dimensions of
   college assessment:
- 1) Workplace readiness and general skills, i.e. what the CLA et al measure
- 2) Domain-specific knowledge & skills
- 3) "Soft skills" (team work, creativity)
- 4) Student engagement with learning and smartly does not include NAAL.

## Our New Romance: The CLA, Part I

- Constructed responses to more complex prompts than ACGE or COMP
- More sustained time-on-task than its predecessors
- Part grounded in the GRE essay section: make/break an argument, computer scored
- Part grounded in the performance section of the typical bar exam: integrate information from diverse sources; prepare a memo analyzing problem; faculty team-trained scoring
- The provenance, on both groundings, is persuasive

### The CLA, Part 2

- Is it a good test? For what it does, yes.
- Does it measure what college graduates learn? No, and it doesn't claim any more than reasoning & writing skills.
- No retired items and scoring criteria yet, so we have to withhold judgment on technicals
- Is it designed for individual and full census assessment? No, like its predecessors, it is for institutions and samples.

### The CLA, Part 3

- When you have volunteers, you don't have high stakes
- An assessment with no "incentives to students to participate meaningfully" risks threats to its validity (ETS 2006)
- Even \$25 is not an "incentive to participate meaningfully"
- The CLA recommended design is not unique in this regard

## The CLA, Part 4: Value-Added is Back!

- Test 100 freshmen, 100 seniors
- By one formula, just control for SAT/ACT scores, and you have it, right?
- ACT suggested a similar approach, the concordance methodology, with COMP
- With enough institutions participating, peers can compete: "We add more value than you do!"

# Pardon my skepticism, but what would you rather do:

- Offer a criterion-referenced statement of performance for 100% of your graduating students (or even a formative statement for 100%) or
- A value-added domain statement for 100 of your students? Even 3 value-added domain statements by matrix sampling of 150?
- Which one communicates more transparently to governance authorities?
- Which can be better integrated into other institutional analytical and planning frameworks?

### **Examples of criterion-referenced statements of summative learning**

- 93% of our chemistry graduates identified a ferro-liquid utilizing X, Y, and Z in a one-hour performance lab
- 81% of our history graduates assembled sufficient archival information to build a schematic of corporate relationships in the New Haven Railroad bankruptcy of 1908
- 89% of our AAS degree recipients in Allied Health/Medical Tech solved 20 simulated tasks using the *Physician's Desk Reference*

# Do we need a test? Consider unobtrusive transcript data

- For writing attainment: 66% of our graduates completed a writing course beyond English Comp (technical, creative, journalism, writing for media)
- For quantitative literacy: 73% of our graduates completed *more than one* course in college-level math

# And we have something to learn from the new European Diploma Supplements

Bullets for a Portuguese student completing a degree in environmental design:

- 1) Passed certification exam in computer graphics
- 2) Wrote paper for university facilities planning committee
- 3) 1 term at Univ of Karlsruhe; German assessed at 3<sup>rd</sup> Stufe
- 4) Team project (nesting behavior in public parks) in Ethology written up in local newspaper
- 5) Short description of final project on design of public plazas

# The Diploma Supplement can be a portfolio statement

- It's about individual attainment
- The discrete portfolio statements can be aggregated by program
- There is nothing "voluntary" about it
- The documentation is produced in the natural course of a student's academic career
- It is subsequently combined with a traditional c.v. and a "language portfolio" on an electronic Europass, a pathway to employers on a borderless continent

### A sidebar on Diploma Supplements

- They provide the "what" of student learning, but not necessarily the "how well"
- To date, they have been imperfectly utilized by European universities adjusting to the Bologna Process reforms
- They also include program qualification descriptions and transcripted data, but the latter are less likely to be read

# We've covered a lot of territory; it's time to call some questions

- How compatible are assessment and contemporary accountability demands?
- Do criterion referenced performance statements have a place in accountability frames?
- How much do you trust unobtrusive transcript data versus external exams?
- Is there a place for Diploma Supplements in the U.S. scheme of things?

# And when we answer these questions, remember:

- Assessments roll along in the economy and society beyond higher education.
- Judgments of quality performance will continue to be passed on individuals by an armada of licensing authorities, funding agencies, and employers.
- We can contribute to improving those judgments or wait for the armada to find us.
- The rest, as they say, will be history.