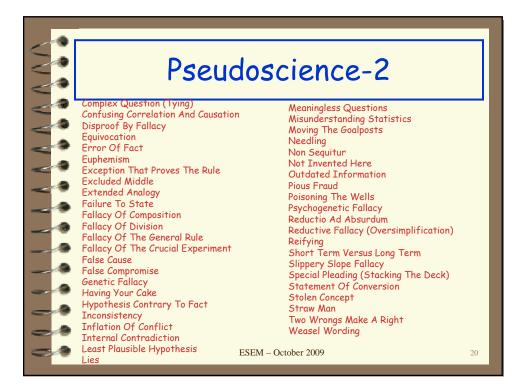
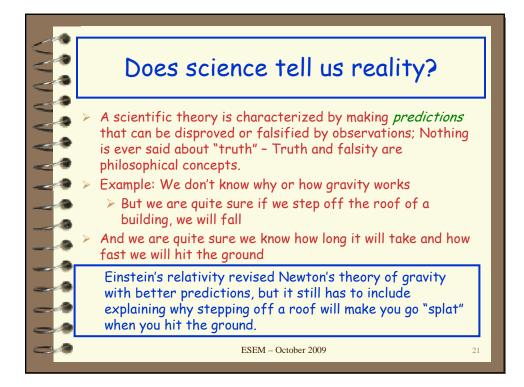
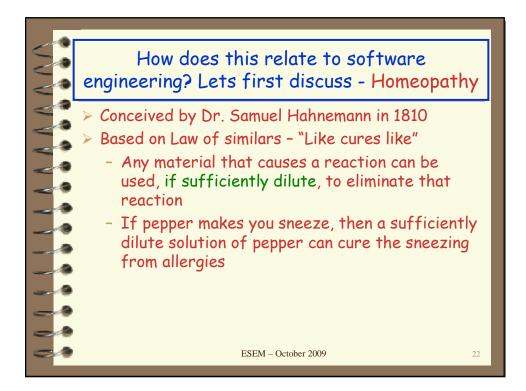
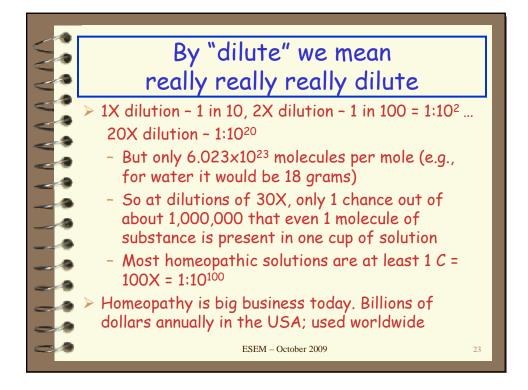


		f pseudoscience ay-archive.org/skeptic/arguments.html)
2.	Ad Hominem Affirming The Consequent Amazing Familiarity	Argument By Question Argument By Repetition (Ad Nauseam) Argument by Rhetorical Question
	Ambiguous Assertion Appeal To Anonymous Authority Appeal To Authority	Argument By Scenario Argument By Selective Observation Argument By Selective Reading
	Appeal To Coincidence Appeal To Complexity Appeal To False Authority Appeal To Force	Argument By Slogan Argument From Adverse Consequences Argument From Age Argument From Authority
	Appeal To Pity Appeal To Widespread Belief Argument By Emotive Language	Argument From False Authority Argument From Small Numbers Argument From Spurious Similarity
- •	Argument By Fast Talking Argument By Generalization Argument By Gibberish Argument By Half Truth	Argument Of The Beard Argument To The Future Bad Analogy Beasing The Question
	Argument By Laziness Argument By Laziness Argument By Personal Charm Argument By Pigheadedness	Begging The Question Burden Of Proof Causal Reductionism Changing The Subject
	Argument By Poetic Language Argument By Prestigious Jargon	Cliche Thinking Common Sense SEM – October 2009 19









	Identifying Pseudoscience -			
	Use of vague, exaggerated or untestable claims			
20	Over reliance on confirmation rather than refutation			
20	Lack of openness to testing by other experts			
	Absence of progress			
- 9	Personalization of issues; Proof by authority			
	Lack of scientific method	ESEM – October 2009	24	

Identifying Pseudoscience - Homeopathy		
Use of vague, exaggerated or untestable claims	Dilutions of 1C non- measurable; The higher the dilution, the better the effect; No rational underlying theory; Only proponents can "see" effect	
Over reliance on confirmation rather than refutation	Testimonials on effectiveness. No blind studies of effects	
Lack of openness to testing by other experts	Allowed to be sold in USA. FDA prevented by law from studying its effectiveness	
Absence of progress	No change in "theory" since 1810	
Personalization of issues; Proof by authority	Homeopathy = Hahnemann	
Lack of scientific method	No multiple controlled studies ESEM – October 2009	

	Identifying Pseudoscience - Homeopathy			
	Use of vague, exaggerated or untestable claims I realized about 15 years ago, that my interest in skepticism and working on experimental Over software engineering were really the same conf refu			
	Lack by o the past 20 years? Abse What needs to be done to further improve the Fers field?			
2.0 0.0	Proof by authority No multiple controlled Lack of scientific method No multiple controlled studies ESEM – October 2009	5		

	Identifying Pseudoscience - Software Engineering?		
	Use of vague, exaggerated or untestable claims	Dilutions of 1C non- measurable; The higher the dilution, the better the effect; No rational underlying theory; Only proponents can "see" effect	
	Over reliance on confirmation rather than refutation	Testimonials on effectiveness. No blind studies of effects	
	Lack of openness to testing by other experts	Allowed to be sold in USA. FDA prevented by law from studying its effectiveness	
	Absence of progress	No change in "theory" since 1810	
	Personalization of issues; Proof by authority	Homeopathy = Hahnemann	
6	Lack of scientific method	No multiple controlled studies	27

	Identifying Pseudoscience - Software Engineering?		
A A A 4	Use of vague, exaggerated or untestable claims	Dilutions of 1C non- measurable; The higher the dilution, the better the effect; No rational underlying theory; Only proponents can "see" effect	"My technique makes programming easier" – How much easier? What does "easier" mean? How much would be 'important"?
	Over reliance on confirmation rather than refutation	Testimonials on effectiveness. No blind studies of effects	"I tried it and it works" - (ESEM audience is rather good at multiple studies)
	Lack of openness to testing by other experts	Allowed to be sold in USA. FDA prevented by law from studying its effectiveness	"Paper is unpublishable since someone already ran that study"
	Absence of progress	No change in "theory" since 1810	How often is a technique studied by a group other than the developer?
	Personalization of issues; Proof by authority	Homeopathy = Hahnemann	Techniques often associated with developer. "I wrote it and I know what I'm doing."
	Lack of scientific method	No multiple controlled studies	How often is falsification of results attempted? 28

