

NCTF 6th On-line Session Transcript
Joined on March 16, 2008 at 9:00 PM

Moderator (bob): Hello everyone. We're about ready to get going. Team 4 will be active in the first hour.

Dan W NH: hey guys I just got back from my golf lesson

Jennifer T NH: I'm so beat from my judo lesson

Moderator (bob): New slide up

Moderator (bob): We are going through the same procedure we did Tuesday & Thursday.

Moderator (bob): If you weren't here last time - note the last point. No session on Easter.

Moderator (bob): New slide up

Abraham E CO to Patrick Hamlett, Tina Ndoh, bob: Does that mean that teams 4 and 5 will have to wait 2 weeks before we can speak again?

Moderator (bob): Abraham - You will be active Tuesday 25th.

Catherine J NH to Patrick Hamlett, Tina Ndoh, bob: Hey, Bob, Tina and Patrick: I'm the only NH person on Team 5, with 3 peeps on Team 4. ????

Jennifer C GA: If one finds he/she has absolutely nothing to add, is that okay?

Moderator (bob): At least that's the plan right now, though we are considering having each team up for half an hour (so 4 teams per session) when experts are on line. Any thoughts on that?

Moderator (Tina Ndoh) to Catherine J NH: Don't worry Catherine, we'll get you some help before the second hour comes up

Frank C NH to Patrick Hamlett, Tina Ndoh, bob: Com'on Cate. If we've got you on there, why do we need more? One riot,one ranger.

Nathan_C_WI: i think that sounds perfect

Virginia P WI to Patrick Hamlett, Tina Ndoh, bob: it seems to me it is a bit "regulated"

Jennifer C GA: Sounds like a plan to me.

Ashley J GA: Sounds good

Don S WI to Patrick Hamlett, Tina Ndoh, bob: I think that's a good idea

Tara V CO: Good.

Rexxor A GA to Patrick Hamlett, Tina Ndoh, bob: I believe that's a great idea.

Santiago M AZ: sounds like a good idea

foster f GA to Patrick Hamlett, Tina Ndoh, bob: Great idea as the teams are a matrix of persons across the country

Lynda Z AZ to Patrick Hamlett, Tina Ndoh, bob: I like 4 teams per session.....it gives more input

Catherine J NH to Patrick Hamlett, Tina Ndoh, bob: Okay, but you said that last time.

Dan W NH: ok

ALLISON A GA to Patrick Hamlett, Tina Ndoh, bob: ok

Moderator (bob): That way more will get to participate without overwhelming them with too many Qs at once.

Virginia P WI to Patrick Hamlett, Tina Ndoh, bob: which sessions will "experts" be on line?

Jennifer C GA: May relieve some of the repetition/duplication.

Moderator (bob): Experts start the next session - Tuesday evening. More on that later.

foster f GA to Patrick Hamlett, Tina Ndoh, bob: would love to see bios on experts

Moderator (bob): OK - Team 4. We are posting the questions chosen so far. Now we need you to start generating new questions.

Moderator (Tina Ndoh): The bios for the experts will be shown at the end of the session tonight. Bios and answers to the first two questions are posted on the website- please look over this information

Mary D CA: Assuming that we are able to clone humans, what will be their status - equal to humans, or sub-human?

foster f GA to Patrick Hamlett, Tina Ndoh, bob: sorry did not see them

Tara V CO: I would be interested in hearing some cross-cultural analysis on the issue, maybe something like how do other cultures view the implementation of NBIC's in their societies

Moderator (Tina Ndoh): Mary your question has been noted

Nathan_C_WI: what do we know about the toxicity of nanoparticles/materials being used in commercial products?

Santiago M AZ: what about the known hazards that these technologies could potentially have to living organisms

Tara V CO: I'm wondering if those are encompassed in Q 1

Moderator (Tina Ndoh): sorry, didn't mean to set a precedent that I'll send a message that questions have been noted...i'm getting all the rest as well!

Moderator (bob): Santiago - Is your question already a part of question #1 on the whiteboard?

Tim H GA to Patrick Hamlett, Tina Ndoh, bob: don't forget it's private / public sector for #1

Santiago M AZ: I believe so, it seems to be among the questions in question one

Nathan_C_WI: how much of the available information on nanoparticles has trade secret protections?

Moderator (bob): Tim - We realize #1 should read private/public. Sorry we just left it off.

Moderator (Tina Ndoh): Nathan should I add this to your previous q? or is this a stand alone?

Jennifer C GA: With 'waste' having become such a problem, recycling, recycling facilities, is it safe to assume that the 'nano waste' will possibly 'be shot into space'? What hazards do recycling create - in relation to the environment I guess and might there be a method to determine the "life span" of these materials? Will they have different uses?

Santiago M AZ: how much can we project as to how the technology will affect the economy, both large scale and small scale

Nathan_C_WI: go ahead and marry them

Moderator (bob): Jennifer - Is that already covered unnder #4. That question is already in the hands of an expert.

Santiago M AZ: how will nanotechnology affect the human condition, health, social, mental, etc.

Jennifer C GA: I am so sorry. I just read it - really read it. I am wasting time. sorry.

Moderator (bob): Jennifer - No problem.

magda v wi to Patrick Hamlett, Tina Ndoh, bob: had computer issues just logged on Magda V wi

Moderator (Tina Ndoh): Santiago, can you get more specific with your question on impact on human condition, health, social, mental, etc.

Tara V CO: I am wondering if its possible to hear a potential timeline for nbic; what the current state of the research is, and what does the developmental timeline look like for the implementation of nbic technology?

Ashley J GA: Since nanotechnology is relatively new and the long term effects are completely known, are parallel research studies being conducted to ensure the reliability and validity of the outcomes?

patrick m co: i like the timeframe idea

Ashley J GA: oops, I meant to say "aren't completely"

Nathan_C_WI: what is the likelihood there will be a centralized database or registry to track the production, transportation and use of nanomaterials, perhaps something similar to those used to track chemicals and gases?

Moderator (Tina Ndoh): Tara, timeline came up in previous sessions, and was rolled into question 1. Is there something additional that you'd like to add?

Santiago M AZ: well, our bodies (its capacities and limits) are part of our condition, so its our mental framework (memory, consciousness, etc.), these are both affected by our social environment and our social environment is also affected by both

Tara V CO: Well, that seems like a current state of affairs question, as opposed to a projected timeline into the future

Santiago M AZ: basically, how will nanotechnology affect out conditions and even our notions of ourselves and others

Moderator (bob): We're going to post the list of finalist questions from Sessions 4 & 5.

Moderator (Tina Ndoh): Ok, I can put a question specifically geared to timeline

foster f GA to Patrick Hamlett, Tina Ndoh, bob: booted and back

Tara V CO: thank you

Moderator (bob): First #4 - These were the finalists voted on in Session 4. The first two were voted in and passed on to experts.

Tara V CO: I like #3, the access question

Moderator (bob): You can certainly re-nominated one of the last three on that list if you think it is important.

Darlene J AZ to Patrick Hamlett, Tina Ndoh, bob: Tara asked about a cross cultural question earlier and nobody has addresses it...

foster f GA to Patrick Hamlett, Tina Ndoh, bob: #5

Moderator (Tina Ndoh): Santiago, does this question fit?--What is the impact of nanotechnology on our notion of self?

foster f GA to Patrick Hamlett, Tina Ndoh, bob: oops! not my turn

Nathan_C_WI: are first responders prepared for some weird nanoscalw event?

Moderator (bob) to Darlene J AZ: We've noted the cross-cultural question and it'll be on the list. No one else commented on it thusfar.

Santiago M AZ: i don't see how it doesn't fit, technology, specially new technologies have a significant impact on sociate and in our notions of human capacity

Santiago M AZ: from fire and he ability to control it, cook food and the effects this had on our digestive system

Moderator (Tina Ndoh): I'm sorry Santiago, my question was does my paraphrasing fit what you're asking.

Moderator (bob): Now we've posted the finalists fromt the 5th session. The second and third have were voted in & passed to experts.

Moderator (bob): Team 4 - Think back on your face-to-face sessions and earlier internet sessions as well. What issues do you feel have not yet been adequately addressed by the questions selected so far.

Santiago M AZ: yeah, but does that also include cognitive science and information technologies?

Santiago M AZ: as well as biotechnology?

Moderator (Tina Ndoh): Santiago, send me the question with the wording that you would like

Tara V CO: thats' b,i, c

Tara V CO: in nbic

Santiago M AZ: what is the impact of nbic on our notion of self and a community?

Moderator (Tina Ndoh): ok, got it!

Jennifer C GA: Are these quality of life concepts?

marc s nh: I would still like to know the relative expense of NBIC research, does it require government funding, can a corporation fund the

research on its own, can an individual Dr Frankenstein cook something up in his basement?

Tara V CO: I like that question.

Santiago M AZ: also, the effects of information technologies on the dissemination of information

Jennifer C GA: So do I. Excellent question. Must be reading my mind.

Ashley J GA to Patrick Hamlett, Tina Ndoh, bob: Was the question that I posed added to the list

Moderator (Tina Ndoh): Santiago, is this an add on to the previous question, or a stand alone question?

Santiago M AZ: stand alone

Moderator (bob) to Ashley J GA: Yes, it is on the list. That was the cross-cultural question, right?

Ashley J GA to Patrick Hamlett, Tina Ndoh, bob: No

Tara V CO: if no anyone has any new questions to add maybe we can start to narrow our list down

Ashley J GA to Patrick Hamlett, Tina Ndoh, bob: Since nanotechnology is relatively new and the long term effects aren't completely known, are parallel research studies being conducted to ensure the reliability and validity of the outcomes?

Tara V CO: suppose to say no one

Santiago M AZ: what about technological dependence?

Jennifer C GA: will this research expense limit or eliminate other?

Ashley J GA: I asked a question earlier..."Since nanotechnology is relatively new and the long term effects aren't completely known, are parallel research studies being conducted to ensure the reliability and validity of the outcomes?

Moderator (Patrick Hamlett) to Ashley J GA: Ashley: Send your comments to "This Room" so everyone can see them

Santiago M AZ: if, this new technological applications are implemented, how dependent would we be of them?

Moderator (bob): Santiago - Please clarify "technological dependence"

Santiago M AZ: well, nowadays, some jobs require you to have a cellphone

Santiago M AZ: this was not so less than 20 years ago

Moderator (Tina Ndoh): Ashley, we do have your question

Ashley J GA: ok, thanks

johan B ga to Patrick Hamlett, Tina Ndoh, bob: does it really matter what people think of the tech. as long as it helps humankind

Santiago M AZ: now, cell phones, they do not adhered to being one of our basic necessities (food, sleep, etc) however, for some people, they seem to be a form of extended basic necessity

Moderator (Patrick Hamlett) to johan B ga: Johan: Please hold your comments until your Team (Team 3) is active

Moderator (bob): Santiago - Thank you for the clarification. I see what you mean now.

Santiago M AZ: on which their basic needs are somehow linked to an external tool that is not necessary

Tara V CO: or, maybe it is the technology itself that creates new needs

marc s nh: In order to regulate NBIC, we have to have some sense of what kind of entity will be doing the research, hence my concern with cost.

johan B ga to Patrick Hamlett, Tina Ndoh, bob: sorry

Moderator (bob): We'll be posting a list with questions you've generated so far. You've come up with quite a few, so when we post it. Look it over carefully because we'll need to pare it down.

Ashley J GA: To elaborate on the question I posed regarding parallel research I asked this because if everyone is doing different research but no one is doing the same thing simultaneously there is the potential for different results

foster f GA to Patrick Hamlett, Tina Ndoh, bob: Back got booted

Moderator (Patrick Hamlett) to foster f GA: Foster: You're having a lot of trouble tonight -- bad weather?

Moderator (bob): The list is up. look it over.

joseph p wi to Patrick Hamlett, Tina Ndoh, bob: I think the iniquitousness and heterogeneity of the nano technologies is being overlooked. I think it is necessary to try to establish a larger social/political framework to establish an "invisible hand" in addition to the specifics. Without an overarching view specific instances will leapfrog/sidestep the specific type of rules that at any moment we think are sufficient, for example consider how cell phone cameras and security cameras and computer personal information databanks have rendered many of our privacy

foster f GA to Patrick Hamlett, Tina Ndoh, bob: weather is better; just getting booted; probably the firebox I'm running

Tara V CO: F seems similar to a regulatory Q already asked

Moderator (bob): Obviously - in order to get down to 5 questions you can vote on, a lot of combining/eliminating will need to be done.

Moderator (Patrick Hamlett) to joseph p wi: Joseph: Please hold your comments until your team (Team 6) is active

Tara V CO: also K seems similar to the first Q posed by the other groups

Tara V CO: we also already have a dissemination of information Q, maybe L can be added to that

Moderator (Tina Ndoh): Any agreement on cutting q's F and K?

Catherine J NH to Patrick Hamlett, Tina Ndoh, bob: Can you type it with spaces so it's readable?

Ashley J GA: ok

Emily H NH: yep

patrick m co: ok

Teresita B CA to Patrick Hamlett, Tina Ndoh, bob: Sorry, but I can't seem to maneuver the whiteboard, can't see question A.

Tara V CO: ok

Dan W NH: yeah sounds good

Moderator (Tina Ndoh) to Catherine J NH: sorry Catherine it's a function of text size...I will increase it a little more, but trying to get all info on the page

Santiago M AZ: the first information question referred to the transparency of research data. L refers more to how will NBIC relate to our interaction with information (i.e. the internet)

Santiago M AZ: F K, i agree with cutting them

Moderator (Tina Ndoh) to Catherine J NH: will cut F and K

marc s nh: I would like K rolled into a larger question, just for specific numbers.

Jennifer C GA: Cut 'em.

Moderator (Tina Ndoh): will cut F and K

Dan W NH: is question m necessary?

patrick m co: cut m

Starlyn F CO to Patrick Hamlett, Tina Ndoh, bob: are we voting at the end of this session as in previous ones? sorry if I missed that at the beginning.

Tara V CO: M needs to be re-worded somehow because it seems to me like the obvious answer is, yes

marc s nh: Do we really care about B?

Tara V CO: or cut it

Moderator (Patrick Hamlett) to Starlyn F CO: Starlyn: Yes

Tara V CO: yes, you should care

Starlyn F CO to Patrick Hamlett, Tina Ndoh, bob: k, thanks

Santiago M AZ: I think A, B, and M can be rolled into J

Santiago M AZ: or at least that J embodies them in a more general sense

patrick m co: i care but i can find out about B myself

joseph p wi to Patrick Hamlett, Tina Ndoh, bob: Sorry I hit return for a new paragraph, did not mean to send before finished composing.

marc s nh: We should, but in a practical world we won't

charles az: hey sorry im late, what are we discussing?

Tara V CO: that's a choice to be made

Jennifer C GA: My technical difficulties have returned/cannot see whiteboard -

Santiago M AZ: since when do we live in a practical world?

Juan N GA to Patrick Hamlett, Tina Ndoh, bob: Im having some computer trouble. What group is chatting?

marc s nh: People primarily care about themselves

Santiago M AZ: cultural views of NBIC are important if we intend to trade internationally

charles az to Patrick Hamlett, Tina Ndoh, bob: is team #5 on tonight?

Tara V CO: don't we always intend to do so?

Moderator (Patrick Hamlett) to Juan N GA: Juan: Team 4 is active

Santiago M AZ: if we try to trade with a country that rejects NBIC, it won't be possible

Juan N GA to Patrick Hamlett, Tina Ndoh, bob: tnx

Santiago M AZ: or it might further damage diplomatic relationships with other countries

Tara V CO: not all will reject though

Moderator (Patrick Hamlett) to charles az: Charles: Team 5 is active for the second hour

Jennifer C GA: I do not understand that point.

Santiago M AZ: not all will accept either

Moderator (Tina Ndoh): agreement to cut M?

Tara V CO: and what about the case when others feel compelled to accept the new technology or perish

Tara V CO: yes

marc s nh: What country in their right mind would reject something that gives them a technological edge?

Santiago M AZ: a lot

Tara V CO: not everyone values the same things

Jennifer C GA: we might be surprised.

Ashley J GA: I doubt that many countries would turn that down

Santiago M AZ: many countries already turn down technological advances

Moderator (bob): Bottom line - Cutting F, K & M

Jennifer C GA: I cannot think that many would turn it down.

Jennifer C GA: cutting F, K and M? yes,

Dan W NH: yes

Santiago M AZ: yes on cutting

Moderator (bob): We still have 11 questions - far too many to hold a vote. We need to get down to 5 questions. What else can go?

marc s nh: Yep, cut B too.

Jennifer C GA: B

Santiago M AZ: A and B can be compounded into I

Moderator (Tina Ndoh): cut how other cultures view nanotech?

Tara V CO: as far as C goes, scientific trials should inherently ensure reliability and validity, it's part of the scientific process

Santiago M AZ: or at least, can be covered within I

Jennifer C GA: combine F and C?

Dan W NH: are we really asking a?

Tara V CO: I think its important, but if everyone else disagrees about B, then I will concede

johan B ga to Patrick Hamlett, Tina Ndoh, bob: It seems that nobody should turn down the opportunity for any tech this great

Emily H NH: cloning - not really my interest either

Santiago M AZ: I think we can cut A though

Santiago M AZ: they question is too decisive to give a concrete answer

Tara V CO: yes, cut A

Moderator (Tina Ndoh): agreement to cut A?

Dan W NH: yes

marc s nh: Yeah, I couldn't see A on my screen, Lets chop it.

patrick m co: down with A!

Moderator (Tina Ndoh): will get rid of A

Moderator (Patrick Hamlett) to johan B ga: Johan: Please hold your comments until your Team is active

Ashley J GA: Tara I'm curious if they actually use trials with this type of research. It should be confirmed by other labs not just one to ensure the effects

johan B ga to Patrick Hamlett, Tina Ndoh, bob: sorry

Dan W NH: can we add "is this real?"

Santiago M AZ: I think H needs to be cut or clarified

Tara V CO: I agree, I would assume scientific trials are employed by nbic scientists

Moderator (Tina Ndoh): Are we also cutting B- how other culture view NBIC?

Ashley J GA: I was speaking with a biomedical engineer last week and he mentioned that some research in this field is not conducted in parallel and that research is done independently by labs

Santiago M AZ: what is a nanotech emergency?

Moderator (Patrick Hamlett): Is Question H too narrow?

Tara V CO: so the concern, Ashley, is test re-test reliability?

Moderator (Tina Ndoh): agreement on cutting B, yes or no>

Santiago M AZ: I think we should cut B, but keep it for alter consideration

Nathan_C_WI: if a box full of quantum dots are spilled and yo momma breathes them in

Santiago M AZ: later*

Tara V CO: no

Dan W NH: lets cut K

Ashley J GA: But in order to do trials you have to wait for the first to be completed and that takes time for long term effects

patrick m co: H too specific

Moderator (bob): Maybe a better way of looking at things - What five questions must be on the final voting list?

Ashley J GA: partially

Tara V CO: cut H

Moderator (Tina Ndoh): agreement to cut H?

Virginia P WI to Patrick Hamlett, Tina Ndoh, bob: what about letting team 5 look at the questions, and not go through this ordeal again?

Santiago M AZ: the idea of quantum dots is to use them in cells already, which are living organism

Jennifer C GA: yes

Ashley J GA: yes cut H

Santiago M AZ: so my "momma" breathing them should be no issue

Dan W NH: yes and k

marc s nh: Cut H Cut B

Santiago M AZ: besides, a box cant hold quantum dots, it cant contain them

Jennifer C GA: good

Santiago M AZ: yes on cutting H

Jennifer C GA: yes

Tara V CO: I like F, B, G

patrick m co: K can go too

Moderator (bob): Remember - these are questions going to experts for written responses. Any question not chosen can be asked when you are on-line with the experts.

Nathan_C_WI: f,h,i,d,g

charles az to Patrick Hamlett, Tina Ndoh, bob: yes cut h

Catherine J NH to Patrick Hamlett, Tina Ndoh, bob: 12 minutes left.

Tara V CO: I agree cut K

patrick m co: good call nathan

Moderator (Tina Ndoh): Sorry letters have changed

Tara V CO: Cut I too

charles az to Patrick Hamlett, Tina Ndoh, bob: what is the signifagance of question I?

Santiago M AZ: i agree, cut I, also cut A

Emily H NH: E seems too vague

Moderator (Tina Ndoh): agreement to cut A?

Dan W NH: how about cutting a, and i

Emily H NH: yes

patrick m co: yes

johan B ga to Patrick Hamlett, Tina Ndoh, bob: yes

Moderator (Patrick Hamlett) to charles az: Charles: Please hold your comments until your Team is active

marc s nh: yes

charles az to Patrick Hamlett, Tina Ndoh, bob: ok sorry

Ashley J GA: yes

Moderator (Tina Ndoh): A will be cut, agreement to cut I?

Nathan_C_WI: yah

Santiago M AZ: yes

Tara V CO: yes

patrick m co: yep

marc s nh: yes

johan B ga to Patrick Hamlett, Tina Ndoh, bob: yes

Santiago M AZ: what about cutting C

johan B ga to Patrick Hamlett, Tina Ndoh, bob: yes

Tara V CO: Yes, cut C

Santiago M AZ: (soon to be B)

Moderator (bob): Need to cut 2 more then we can hold a poll.

Santiago M AZ: by C i mean B

Tara V CO: yes B

Tara V CO: B and G

Dan W NH: how about b and e?

Moderator (Tina Ndoh): agreement to cut B?

Tara V CO: I like E

Dan W NH: yup

johan B ga to Patrick Hamlett, Tina Ndoh, bob: b

patrick m co: add D to E

Santiago M AZ: yes on cutting B

Tara V CO: D and E could go together

johan B ga to Patrick Hamlett, Tina Ndoh, bob: yes

Tara V CO: cut B

Moderator (bob): D & E don't really go together.

Moderator (Patrick Hamlett) to johan B ga: Johan: PLEASE stop commenting, since your team is not active now

Moderator (Tina Ndoh): B will be cut

Santiago M AZ: I'd say cut E as well

Tara V CO: I say cut G

Nathan_C_WI: no one thinks knowing whether nanoparticles on the market today are toxic is important?

Santiago M AZ: it assumes that underserved populations will have access to the technology

patrick m co: g can go

Moderator (Tina Ndoh): agreement to cut G?

Tara V CO: we already asked that Q

Tara V CO: B, I mean

Jennifer C GA: yes

marc s nh: For me, F is really ethereal

Nathan_C_WI: isn't toxicity ground zero for knowing what steps to take next?

marc s nh: I Like B

Santiago M AZ: B has already been referred to with the environment question and with the risk question last session

Moderator (Patrick Hamlett): Nathan: Is the toxicity of nanoparticles in consumer products centrally important to human enhancement technologies?

Tara V CO: but another group already picked a Q like that

Santiago M AZ: it is important, but at this point, it has already been addressed

Moderator (Tina Ndoh): thoughts on cutting G? yes or no?

Tara V CO: I think it was the first one

Nathan_C_WI: assuming HET's will ne day be consumer products

Tara V CO: yes

Nathan_C_WI: if it's already been asked then cut it.

Nathan_C_WI: i have memory issues

Ashley J GA: I don't really understand G

marc s nh: If its already been asked, we should drop it.

Tara V CO: rest assured, it has

Moderator (bob): Cutting B & G. Then we are down to five and Team 4 can vote on their favorite of the remaining.

Santiago M AZ: aye on cutting B and G

Tara V CO: let's do it

patrick m co: cut B and G

Santiago M AZ: I would suggest dropping D as well

Moderator (bob): TEAM 4 only may vote. Vote for the one questions on the whiteboard you most want to ask. Top two vote-getters go to experts.

Moderator (bob): Use the A, B, C, votinbg tabs on the tool bar.

marc s nh: "what is the impact of electricity on our notion on self and community?"

Dan W NH: could we get a and c?

Moderator (bob): Please vote using thwe tabs on the tool bar.

Santiago M AZ: electricity revolutionized society, but regardless of that

Santiago M AZ: the implementation of electricty also changed what we were capable of doing

Santiago M AZ: to a lesser extend that human enhancement will

Moderator (bob): Mark & Emily - Please vote soon.

Moderator (bob): Poll results will be psoted momentarily.

johan B ga to Patrick Hamlett, Tina Ndoh, bob: shouldn't we be tying to enhance human tech for hte betterment of humanity

marc s nh to Patrick Hamlett, Tina Ndoh, bob: my notion of self is not tied into any technology

johan B ga to Patrick Hamlett, Tina Ndoh, bob: sorry

Moderator (bob): C & E have been chosen to be passed to the experts

Abraham E CO: Ok, can we see the slide with the questions that were agreed upon the other nights?

Moderator (bob): My bad - These will combine with Team 5's questions and voted on at the end of the evening.

Moderator (Tina Ndoh): Abraham, we'll put that slide up in just a moment

Abraham E CO: Thanks

Moderator (bob): Abraham - For now, note the questions C & E on the whiteboard

Abraham E CO: got it

Abraham E CO: My question, by the way is; What will an increase in average lifespan do to population dynamics? How many more people will be on the planet if we live an average of 1 more year? 5 more? 10 more? Can we sustain that many people or do we need to upgrade our infrastructure and food supplies first?

Abraham E CO: thanks

Moderator (bob): We are reposting questions passed to experts from Tuesday & Thursday. You don't want to duplicate these.

Moderator (bob): TEAM 5 - You are now active & can start suggesting questions.

johan B ga to Patrick Hamlett, Tina Ndoh, bob: the infrastructure seems like it should expand with the human life

charles p ca: How do we encourage research that may not be terribly lucrative but extremely beneficial to mankind?

Don S WI: What institutions (governments, corporations, think tanks, private organizations, watchdog groups, churches or other religious groups, etc.) have the strongest interest in preventing development of NBIC technologies, and what are they doing or trying to do to stop it?

I tried asking this the other night without much response. I think it's important we learn more about influential opponents to NBIC tech, since they might be our best resources for finding out about the most significant concerns that are out there now and possibly also recommendations about how to limit or regulate NBIC.

foster f GA: I don't see anything related to who will control

Moderator (Tina Ndoh): thanks Abraham, you q is noted

Virginia P WI: I want to go back to question D, asked by Team # 4. I think it could be reposted, but instead of "underserved" (which is a nebulous and undefined word)...I want access for ALL

angel d. to Patrick Hamlett, Tina Ndoh, bob: sorry computer issues.

Abraham E CO: What is the level of genetic diversity that is necessary for the health of a population? In eliminating "undesirable" genetic effects could we be inadvertently disadvantaging ourselves for some sort of future crisis?

Abraham E CO: I don't understand what everyone means by "access"

Tamera R Az: What are the best sources for staying current on this tech, as well as gain the best info?

Moderator (bob) to johan B ga: Johan - You are not chat active. Your comments come only to us & we don't have time to deal with them. Please refrain from making substantive comments on the discussion.

Rose M CO: Is the threat of nuclear war driving any of NBIC R&D, besides what is military application for ex. The brain chip in humans, would the information that was received be enough to restart civilization?

Virginia P WI: I think access means equitable ability to use/get services

johan B ga to Patrick Hamlett, Tina Ndoh, bob: sorry

Andrea C WI: To what extent will individuals have control over the privacy of new information generated by nanotechnology? Specifically, 1.) Genetic information such as disease or behavior propensities and 2.) Personal information such as location, activities or other info. susceptible to spyware?

foster f GA: Virginia are you sure

Moderator (Tina Ndoh): Foster, are you asking about who will control regulation, enforcement?

Catherine J NH: How about: Will funneling funds toward human enhancement compete with funds for cleaner energy/environment or other pressing social needs?

Abraham E CO: so do we mean "access" like the way we all have access to BMW's or do we mean "access" like we all have access to pants?

Andrea C WI: We could also add at the end of that last one, "To what extent have our privacy rights already been eroded by current technology?"

Juan N GA: We are seeing a lot of reliance on technology now a days. Students can hardly write but can short hand text message at a very advanced level. How will the reliance on this technology affect society? Are there back up plans in place if these technologies fail?

Tamera R Az: I agree on a ? about military applications.

foster f GA: Bob YES!

Rose M CO: What does the religious community say about NBIC technological aspirations, how does it challenge or support their belief system of God.

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Don S WI: Wow, this is an inquisitive team

Rose M CO: oops!

Andrea C WI: Well we already know what the Vatican thinks about genetic manipulation -- didn't they come out with a denouncement last week?

Don S WI: Is that one of their new sins?

Rose M CO: As NBIC R&D continues is consideration given concurrently to potential psychological disorders that might follow the introduction of nano technological innovations, what are they? Will other life forms be monitored?

Virginia P WI: what percentage of people are NOT following Vatican guidelines?

Tamera R Az: Who has the most to gain financially in moving forward with this tech?

Don S WI: Or not moving forward

Tamera R Az: Exactly Don

foster f GA: Bob I still want a question posed directly to regulatory group in as much as their are (i think) financial issues

Catherine J NH: Who cares about the Vatican?

Virginia P WI: What are the possibiities for financial gains in this area? What is already being developed and will be marketed?

Andrea C WI: Here's another regulatory question: What is the scope of the FDA and the EPA's regulatory control over 1.) Other governmental agencies such as DOD, CIA, NSA, etc.? and 2.) Private corporations? Is there any regulatory check in place to guarantee safety across the board in regards to safe product testing and implementation?

foster f GA: ??WHO knows

charles p ca: Can we know?

Tamera R Az: And have we addressed who will regulate the regulators? Or is that ? to broad and unanswerable?

Richard S (GA): MY QUESTION TO EXPERTS... I remember hearing that the avg human uses something like 10% of his/her brain power..... and some of the smartst people use only something like 15% - could advances in nanotechnology "tap" into that other 85-90% of UNUSED brain ability? Do we know of any drawbacks of doing such a thing OR since its never been done is there any REAL WAY to know.....

Moderator (Patrick Hamlett): Andrea: FDA & EPA have very limited abilities to affect decisions made at DOD, CIA, NSA

Moderator (Tina Ndoh): Rose, can you clarify 'other life forms'?

foster f GA: Rcihard good point so what would be the consequence

Abraham E CO: Richard, that statistic is a misquote that won't die

Catherine J NH: Also: Will nanotechnology further the isolation of individuals through virtual social environments (Natur deficit disorders?)

Moderator (Patrick Hamlett): Andrea: Also, FDA regulations directly affect private corporations

Rose M CO: animal and plant life

Catherine J NH: I mean Nature deficit disorders.

charles az: yea exactly

Moderator (Tina Ndoh): Thanks Rose

Richard S (GA): @Abraham..... would you happen to know the real number? lets say its not as small as 10% -- lets say humans use 50-60% -- sill could things like brain chips or other technological advances get us to a FULL 100% ???

Andrea C WI: I guess I was referring to research, i.e. is some corporation is doing its own private research, is anyone watching over them for safety before they submit the final product to the FDA for consumer approval.

Juan N GA: what measures are being taken to be prepared for the "arrival" of nano tech?

Virginia P WI: there are people currently who use 100% of their gray matter!

Juan N GA: are we prepared?

Abraham E CO: Richard, we use pretty much our whole brain. Not all at once mind you, but the whole thing does have function. Or to put it

another way, there has yet to be any region of the brain that has been found NOT to play a part

Virginia P WI: What is needed to prepare for Nano technology?

charles p ca: i may only have about a teaspoonful of grey matter, but i use much of it

Catherine J NH: Virginia: 100% of gray matter? Not in the White House!

Don S WI: Richard - I'm not sure the actual percentage matters since with NBIC you're talking about the possibility of actually adding functionality to the brain through technological enhancements

charles az: is human tracking devices part of nanotechnology

charles az: ?

Moderator (Tina Ndoh): Virginia, can you elaborate on your last question?

Virginia P WI: i think we are asking questions, not making political statements,

foster f GA: that's part of #1 don't u think

Don S WI: Having fun yet, Tina? This is going to be a long list to winnow down

Andrea C WI: Here's one about genetic manipulation: What is the current state of affairs in regards to the genetic manipulation of embryos or creation of "designer babies?" Is there any regulation regarding something simple like choosing a certain embryo for in vitro implantation versus creating a "Frankenstein" baby?

Abraham E CO: To quote myself from the other night (yes I'm quoting myself, I'm just that pretentious...) "It's easy to use other animals for human analogs for biological systems, but how can we test technology that affects our minds? What is a human analog when it comes to the brain? Or do we just go to human tech right away?"

Catherine J NH: Sorry, couldn't resist...

Tamera R Az: If anyone can do it Tina can

Virginia P WI: Do we know what is needed personally and/or culturally to prepare us and the world for nano technology?

Moderator (bob): TEAM 5 - You now have generated 16 questions. We are going to have to cut off there because we can't handle more. Since we need to winnow down to 5 for a vote. You've got a lot of work ahead.

charles p ca: cool

foster f GA: r2d2?

Tamera R Az: Sounds good!

Juan N GA: k

Abraham E CO: 16? is that it?

Juan N GA: good job team!

Don S WI: Everyone was so busy asking questions we hardly discussed any of them

craig f CA: what are the military doing with this particular subject

Tamera R Az: That will come now, I'm sure.

Moderator (bob): We're going to have to use two slides to summarize.

foster f GA: 1 & 3 seem to address lots of issues (if they will listern)

charles p ca: only two?

charles az: im with 2 and 3

charles az: those are good points

foster f GA: on the first white board only

Moderator (bob): Slide #1 IS UP.

Catherine J NH: Hard to read...

foster f GA: 2&3 = b&c

Juan N GA: i dont like D

Abraham E CO: Ok, my picks are A and F so far

Catherine J NH: Thank you!

charles az: yea D needs some reiteration

charles p ca: d is too vague

Abraham E CO: D is incredibly vague and I would submit that it is a question we should be asking OURSELVES, not an "expert"

Moderator (Tina Ndoh): agreement with cutting A?

Vanessa L ca: yes

Tamera R Az: Get rid of D

ariel t co to Patrick Hamlett, Tina Ndoh, bob: yea

charles p ca: yes

Abraham E CO: what? no. dont' cut A

Juan N GA: i like A

Catherine J NH: I like A, but not D

Moderator (Tina Ndoh): ok, leaving A

foster f GA: A yes and D restate

Abraham E CO: Cut D

Don S WI: yes, cut D

Moderator (Tina Ndoh): agreement to cut D?

Abraham E CO: yes

Moderator (bob): CUTTING D

Tamera R Az: Yes onD

Catherine J NH: D has been covered in regulation.

Vanessa L ca: all of the other questions cover d

Virginia P WI: yes

Juan N GA: i vote to cut b

Catherine J NH: E has been covered

Moderator (Tina Ndoh): agreement to cut B?

craig f CA: who will final oversight over the govoment craig f CA

Abraham E CO: yes

Richard S (GA): for some reason i dont like B..

Juan N GA: cut B

Tamera R Az: I agree about E

Catherine J NH: Cut B

Tamera R Az: Cut B

Vanessa L ca: I'm curious about B

Moderator (Tina Ndoh): B will be cut

Catherine J NH: Also cut G

Don S WI: I'd cut H

foster f GA: cut b and e

Moderator (bob): We'll cut B

charles p ca: Cut B

Moderator (Tina Ndoh): agreement to cut E?

charles p ca: yes

Juan N GA: Yes

Abraham E CO: I think B and E are questions we are supposed to answer, not ask

Catherine J NH: yes

Abraham E CO: yes

Juan N GA: I want to cut C too

Vanessa L ca: E has been asked multiple times already

Don S WI: I agree on cutting B

Virginia P WI: cut B...it will be difficult to fund or pay for some research which is not lucrative!

foster f GA: yes

Catherine J NH: They've been covered.

Moderator (Tina Ndoh): E will be cut

Rose M CO: I am unable to read all of I

Tamera R Az: I think G is very valid so that we can do even more research of our own.

Moderator (Tina Ndoh): agreement to cut C?

charles p ca: i think c is interesting, but not a good question for the experts

Richard S (GA): cut E as well - I really think that this stuff will be accessible to all --- now affordable, that's another story --- but accessible... yes!

Abraham E CO: yup

Moderator (bob): B has already been cut (despite it still being up there)

Juan N GA: cut c

Vanessa L ca: I like c

Catherine J NH: I don't understand C.

Rose M CO: ok

Don S WI: I like C too (of course I asked it)

craig f CA: B is important donot cut B craig f CA

foster f GA: cut e

Don S WI: Catherine - what don't you understand? I can try to reword it

Virginia P WI: I think preventing development will be difficult, if not impossible1

Vanessa L ca: E should be cut, it has already been asked

Moderator (Tina Ndoh): I'll leave c alone

Moderator (Tina Ndoh): agreement to cut E?

Catherine J NH: Don, why do we care about that?

Juan N GA: i think we know the answer to at least the first part of C already

Vanessa L ca: I don't think we need G

Tamera R Az: Yes on cutting E

charles p ca: there never is public policy to insure access for all

Juan N GA: i would cut e and G

Catherine J NH: Right Vanessa--just go to the website. I agree.

foster f GA: agree on G that is individual responsibility

Andrea C WI: I'd like to cut C, G & E.

Don S WI: As I mentioned earlier - I think strong opponents of the technology would be a useful resource for policy recommendations re: control & regulation, which seems to be a pretty significant concern of the group

charles p ca: yea

Abraham E CO: cut g

Moderator (Tina Ndoh): looks like g and e should be cut?

Abraham E CO: yes

charles p ca: yep

Juan N GA: agree with Andrea

Virginia P WI: CUT g + e

foster f GA: go for it

Juan N GA: and c

Moderator (bob): We'll cut G & E.

charles p ca: cut c

craig f CA: YOU SHOULD CUT G

Moderator (bob): C seems to be controversial. Many have called to cut, but there is a significant minority wanting to keep it.

Catherine J NH: Don, how would we find that out?

Tamera R Az: I don't think G should go either. Maybe we could add it into another ?

Andrea C WI: I like the idea of H, but not the way it is phrased. Nuclear war is a little too specific -- there are probably thousands of different ways the military is interested in this tech.

Abraham E CO: yeah, I don't get H

Moderator (Patrick Hamlett) to **craig f CA**: Craig: You do not need to sign your name in your comments; the program does it automatically

Juan N GA: Cut H

Catherine J NH: Do we really want a question which assumes nuclear war will happen???

Juan N GA: i like the military app part

Tamera R Az: H has valid points but needs to be phrased or worded different.

Moderator (Tina Ndoh): agreement to cut H?

Don S WI: Catherine - ask the expert?

Vanessa L ca: For C, I think a good amendment would be to ask what step can we take to protect and ensure the continuation of the development of beneficial nctf studies despite conservative forces

charles p ca: i agree with Abraham

Virginia P WI: CUT h...

Vanessa L ca: I like the first part of H

Don S WI: Cut H

foster f GA: On C is this a "big brother" ? I in favor of cutting

Vanessa L ca: The role of nano in nuclear war very important

Abraham E CO: I think that "I" is another question that we should be answering with our policy recommendations and therefore don't need to be asking an expert

Juan N GA: i have a problem with the nuke part

Moderator (Tina Ndoh): agreement to cut I?

charles p ca: nano in the military covers nuclear war

foster f GA: cut h

Catherine J NH: I agree with Abraham.

Abraham E CO: cut H and I

Tamera R Az: I like H for the military part.

Andrea C WI: We may as well cut H as it is phrased. Maybe when we are talking to a reg. expert we can discuss the secrecy of the military, which checks them, etc.

Don S WI: I agree w/ Abraham - I (as worded) would be speculative for even an expert to answer

Moderator (Tina Ndoh): agreement to cut H and I?

Catherine J NH: Cut H and I

Abraham E CO: yes

Andrea C WI: No! I like I.

Virginia P WI: yes

charles p ca: yesssssss

Vanessa L ca: agreement with cutting I

charles az: cut H not I

Moderator (Patrick Hamlett): Abraham: If you think Q I is important, why would you not want to hear from an experts about it?

Don S WI: yes, cut H & I

Juan N GA: ok cut h and i

Vanessa L ca: H just needs to be modified?

Tamera R Az: Done with I

craig f CA: WE NEED I

Juan N GA: not for expert i agree with that

Abraham E CO: I think it is an important question for US to ANSWER, not to "pass the buck" to an expert to answer for us. This is OUR policy recommendations, not the experts

charles az: Privacy is a very big concern

Moderator (bob): Cut H, but we'll hold on I for now.

Andrea C WI: You may not like I now, but just wait until an insurance company tests your blood without your consent and uses that info. To deny you coverage. Or your employer tests you without your consent...

Don S WI: I like the idea of a privacy question but one that's better worded

Vanessa L ca: I agree with don

Juan N GA: agree with don

foster f GA: Agreed

Tamera R Az: Agree with Don as well

charles p ca: Yay Don

Catherine J NH: We're trying to get to 5 questions right now, right moderators?

Don S WI: I agree with me too

Vanessa L ca: lol

charles p ca: I love that about you, Don

Tamera R Az: Can C and I be combined somehow?

Catherine J NH: Privacy is important.

Juan N GA: are there more questions?

Virginia P WI: we only have 4 questions remaining!

foster f GA: so we are at 4?

Tamera R Az: Sorry

Abraham E CO: we have another page of questions

Andrea C WI: Is there still a second page or is this it?

Juan N GA: o ok

Moderator (bob): WE still have another slide of questions to go through. We'll start on that one now.

Abraham E CO: can't see A

Catherine J NH: I'm completely against using animals for testing.

charles p ca: i seems vague and unanswerable

Juan N GA: cut a

Tamera R Az: Cut I

Juan N GA: i think we have one on waste

Moderator (Patrick Hamlett): Catherine: Yes, we're trying to get to the five most important questions

Moderator (Tina Ndoh): You all still have a long ways to go!

Don S WI: Everyone - enlarge your whiteboard & it's much easier to read

Moderator (Tina Ndoh): agreement to cut A?

Tamera R Az: Cut A

Catherine J NH: A was big in NH.

Juan N GA: cut a

charles p ca: yes

foster f GA: cut a and i and h

charles p ca: cut I

Moderator (bob): Agree on cutting I. I have to admit, it's broad and vague.

Vanessa L ca: A can be cut, I think the two can go together

Tamera R Az: Yes

Abraham E CO: I would like to know what the current funding status for NBIC is, perhaps we could add it to a previous question

craig f CA: YOU NEED A

Moderator (Tina Ndoh): will cut A

Vanessa L ca: I think B is important

Virginia P WI: I would support cutting A, H. and I

Juan N GA: i want to keep b

Moderator (Tina Ndoh): agreement on cutting I?

Abraham E CO: yes

Virginia P WI: yes

Juan N GA: yeah

charles p ca: yeah

Vanessa L ca: Cut C, probably a good social discussion, but maybe not appropriate for the scientist right now

foster f GA: yes

Don S WI: yes

Catherine J NH: How about if we vote on A through E, then vote again on the rest?

Richard S (GA): agree .. cut "I"

craig f CA: YOU NEED A it will happen

Juan N GA: cut c

Tamera R Az: Cut I

Moderator (Tina Ndoh): will cut I

foster f GA: yes on C

Catherine J NH: Cut C

Virginia P WI: cut c

Abraham E CO: cut C, cut H

Tamera R Az: Cut C

charles p ca: Cut c (ggod question, though; I agree with Vanessa)

Moderator (Tina Ndoh): will cut C

foster f GA: agree with Abraham cut H

Moderator (Tina Ndoh): so far A, C, and I

Juan N GA: cut d

Vanessa L ca: rock on charles!

Catherine J NH: Cut I, it's hypothetical.

Moderator (Tina Ndoh): agreement on cutting H?

Abraham E CO: yes

Virginia P WI: yes

Tamera R Az: Yes

charles p ca: sure

Juan N GA: cut cut cut

Juan N GA: h

Don S WI: not yet - I think genetic manipulation is an important issue

foster f GA: on h agree

Moderator (Tina Ndoh): will cut H

Don S WI: ok then

charles p ca: Lots of gold left on the cutting room floor....

Juan N GA: cut D

Abraham E CO: cut G, I think that the way the question is worded it is the definition of a human enhancing technology

Don S WI: cut g

Vanessa L ca: Have we agreed to cut C yet?

foster f GA: aree on d it is part of the result

Abraham E CO: woah, I mean F now

Juan N GA: yes cut G and D

charles p ca: ut

Vanessa L ca: I agree, cut G

Moderator (bob): Keep in mind that questions cut may be asked when experts are on line with us.

charles p ca: Cut C

Tamera R Az: Cut G

Vanessa L ca: cut c, cut g

Catherine J NH: Cut C--it's unimportant.

Richard S (GA): doesn't the last part of "D" and a part of "J" both deal with TESTING.....

foster f GA: Cut c cut g its part of the result

Moderator (bob): We have cut A, C, I and H.

Tamera R Az: Cool

Abraham E CO: The last part of D seems out of place with the rest of the question

Catherine J NH: I LIKED A.

Vanessa L ca: I agree, cut the second part of D

Juan N GA: i vote to cut d

Andrea C WI: Maybe B and G could be combined?

Juan N GA: and E

Tamera R Az: Can D and J be combined?

Don S WI: I forgot - what were the two winning Team 4 Qs? Want to avoid overlap. Can moderators just post them as a message?

foster f GA: for d is the r&d is truly scientific then you have the results

Abraham E CO: B and G are basically the same

Rose M CO: keep b&d

Vanessa L ca: Cut E

Catherine J NH: We've got five questions now.

Juan N GA: i don't see g

Juan N GA: lol

Abraham E CO: too late, I guess

Moderator (Tina Ndoh): agreement to cut D and J

Vanessa L ca: Nope, there are still the previous four from the first side

Abraham E CO: cut F

Juan N GA: cut d and j

Catherine J NH: Let's cut them all!

Don S WI: Yes, cut F

Moderator (bob): We've got 5 questions on THIS slide, but 4 more on the other. We need to get to 5 TOTAL.

Juan N GA: cut F too

Moderator (Tina Ndoh): agreement to cut F?

Tamera R Az: Can we maybe combine some?

Juan N GA: cut

Juan N GA: f

foster f GA: combine the slides BUT keep the letters

Andrea C WI: Yes

charles p ca: cut F

Abraham E CO: can we cut F and then put the rest on one slide so we can see them all together?

Moderator (Patrick Hamlett): F will be cut

Catherine J NH: Can you show them all together?

foster f GA: cut f

Tamera R Az: Yes cut F

craig f CA: WE NEEDED A CONGRESS WILL PLAY GAMES WITH OTHER FUNDING AND PORK IN BILLS SENT UP FOR VOTE

Catherine J NH: I don't like the first part of J.

Moderator (Patrick Hamlett): Tina's putting both slides together...

charles az: at this rate we are going to eliminate all the questions and have nothing left

Abraham E CO: what don't you like about it?

Catherine J NH: Craig, I tried...

Juan N GA: i forgot what a was and I don't think expert will give a satisfying answer on funding

charles p ca: By the way, ALL of the questions have been thought provoking and interesting...

Catherine J NH: I don't think it should be easy to use animals.

Tamera R Az: Agree That

Moderator (bob) to **craig f CA**: Craig - You can ask A when on line with the experts.

Don S WI: Cut G

Juan N GA: i vote to cut B

Richard S (GA): what about "E".....? Would that be a TECHNOLOGICAL NANO EXPERT type question or is that more of an "economist/financial guru" type question???

Moderator (Patrick Hamlett): Ned combined slide is up...

Juan N GA: Cut B and HG

charles p ca: I think b is interesting but not for the experts

Juan N GA: oops G

Moderator (Patrick Hamlett): Who's Ned?

Vanessa L ca: Though I understand the relevance of question G, I think there is a deeper question behind it. For example, are we really as concerned with who has the most to gain, or rather, what are this groups intention and how with they help/harm us?

foster f GA: cut b & g a moot issue

Moderator (Tina Ndoh): agreement to cut B

Richard S (GA): OOOPS!! NEVER MIND!!! I meant the OLD "E" that was showing before this NEW SLIDE cam u...

Abraham E CO: Catherine, the question is more along the lines of "how do we test tech that affects the brain without just cutting open someone's brain, or can we?"

Catherine J NH: F is interesting, but I think we know it will be PTSD.

Juan N GA: cut b

foster f GA: cut b

Moderator (Tina Ndoh): other thoughts on B?

Don S WI: keep

Abraham E CO: b and g are two sides of the same coin

charles p ca: Cut B

Catherine J NH: Cut b--I don't think we'd get the info.

Moderator (Tina Ndoh): b will be cut

Rose M CO: cut G

Juan N GA: im on the fence with C

Don S WI: cut E - too vague

Moderator (bob): We see sentiment for eliminating B. Can the question be answered is part of the criteria for selecting a good question.

Catherine J NH: I say cut H

Moderator (Tina Ndoh): agreement to cut G?

charles p ca: cut h

Vanessa L ca: Cut G

Juan N GA: cut g and h

Abraham E CO: cut g

charles p ca: cut g, moot

foster f GA: cut g

Catherine J NH: G is good-- get them thinking.

Virginia P WI: cut g + h

Moderator (Tina Ndoh): G will be cut

Moderator (Tina Ndoh): agreement to cut H?

Virginia P WI: yes

Juan N GA: cut h

charles p ca: yes

Andrea C WI: Yes

Vanessa L ca: I think H is important

Tamera R Az: I like G

Moderator (bob) to Catherine J NH: But G was probably unanswerable.

Catherine J NH: Vanessa, why?

foster f GA: h is a good question but probably cannot be answered even by experts at this point

Abraham E CO: I like h, it's my question, but I can just ask it as a follow up to one of the "experts"

Catherine J NH: Go, Abraham!

Tamera R Az: I can't read all of H cut

Juan N GA: we do studies on brains now

foster f GA: thanks Abraham

Moderator (Tina Ndoh): H will be cut

Vanessa L ca: Because human enhancement seems so directly related to the human brain. How will we be testing that? What are the outcomes?

Moderator (bob) to Catherine J NH: H will be cut. Save it for a follow-up Abraham.

foster f GA: but not to the extent of nano at least in the US

Virginia P WI: if we cut g + h, we have 5 remaining

Vanessa L ca: What other ways are there to test the nano on the human brain?

Juan N GA: sorry Vanessa H is cut

Abraham E CO: we are at 6, one more to go

Vanessa L ca: ok, white flag is waving

Juan N GA: lol

Moderator (bob): We are down to 5 so we can vote on the rest. That revised slide will be up in a moment.

Tamera R Az: Beautiful!

Abraham E CO: with 13 minutes to spare

foster f GA: so the top 2?

craig f CA: CUT H NOT G

Juan N GA: too late craig

Moderator (bob): TEAM 5 ONLY - may vote for your favorite of the five questions posted.

foster f GA: can't see past e

Juan N GA: just for one right?

Abraham E CO: there isn't anything past E

Moderator (bob): Use the A, B, etc, votibng tabs on the tool bar.

Moderator (Patrick Hamlett): Juan: yes

Moderator (Tina Nдох): there's only A through E, these are the top choices

Moderator (bob): Abraham - Right - that's five questions. Vote for one.

Vanessa L ca: after we click the letter, do we need to do anything else?

Moderator (Patrick Hamlett): Foster & Tamara: please vote now

foster f GA: done

Tamera R Az: Done also

Moderator (bob): Voting complete - results in a moment.

Moderator (Patrick Hamlett): After we've seen this vote, Tina will prepare a slide showing all four top questions, and EVERYONE will vote for the most important question

Juan N GA: i kind of dont get E

Starlyn F CO to Patrick Hamlett, Tina Nдох, bob: Yay! I'm hungry!

Catherine J NH: Then don't vote for it.

Moderator (Patrick Hamlett) to Starlyn F CO: Starlyn: I think we're coming in early tonight...

Juan N GA: i didn't vote for it Catherine. Look at my name and you'll see that

charles az: i choose D

Rose M CO: Will stress effects be monitored on plant and animal life

Moderator (bob): Questions A & C go to the final ballot along with Team 4's questions. When that slide appears ALL may vote.

Don S WI: While we're waiting, can I just propose that all the slackers who signed up for this project and aren't showing up in the online sessions forfeit some of their \$500 to those of us who are? Attendance has not been too impressive

Juan N GA: yeah don how is that calculated

charles az: i choose d but it's not letting me pick it

Abraham E CO: people who don't show are supposed to be docked pay according to the hours of non-attendance, allegedly

Tamera R Az: The Time change was an unexpected challenge for some of us!!!!

Juan N GA: i was told about getting a percentage or something like that depending on how your attendance is

Moderator (Patrick Hamlett): Any excess \$ will be used by the staff to analyze the data -- in the Bahamas!

Starlyn F CO to Patrick Hamlett, Tina Ndoh, bob: lol

Abraham E CO: can I be on staff?

Juan N GA: me too

charles az: ha-ha exactly

Moderator (Patrick Hamlett): Abraham: too late...

Teresita B CA to Patrick Hamlett, Tina Ndoh, bob: Funding and research strategies well outlined and projected in supplemental reading. suggest panelists read for more background. Also, there is a comprehensive listing of agencies involved and their particular area of expertise in current research. I

ariel t co to Patrick Hamlett, Tina Ndoh, bob: ha-ha

Tamera R Az: Nice answer Patrick Very Nice

Don S WI: Patrick - I guess that's OK too - send pictures

Starlyn F CO to Patrick Hamlett, Tina Ndoh, bob: can we vote now? (And I've been on every single time!)

charles p ca: I speak bahamanianl

Abraham E CO: maybe next time....

foster f GA: Don which is more important the money or the ability to impact the controls; pat where in the Bahamas

Teresita B CA to Patrick Hamlett, Tina Ndoh, bob: I want to go to the Bahamas.

Teresita B CA to Patrick Hamlett, Tina Ndoh, bob: Fun

charles az: in the end they benefit each other

Moderator (bob): EVERYONE MAY VOTE - PICK ONE of the following questions. Use the voting tabs on the tool bar.

Juan N GA: I'm sorry but i like the money

Juan N GA: lol

Teresita B CA to Patrick Hamlett, Tina Ndoh, bob: I tried to vote but don't see any letter next to my name. TB from CA

Tamera R Az: I get naked in the Bahamas- Can I go? Just kidding.

johan B ga to Patrick Hamlett, Tina Ndoh, bob: a

johan B ga to Patrick Hamlett, Tina Ndoh, bob: Johan B Ga A

Teresita B CA to Patrick Hamlett, Tina Ndoh, bob: finally....i see now.

Jonathan R GA to Patrick Hamlett, Tina Ndoh, bob: how do you know if your vote was taken? I voted for question D.

Moderator (Patrick Hamlett): BTW: you will find a fair amount of information in the Background Materials about funding for NBIC research

Moderator (bob) to johan B ga: Johan - use the voting tabs at the top of the page on the tool bar to votre

Catherine J NH: Hasn't a timeline already been covered?

craig f CA: SORRY I wanted to p[ick C

Moderator (Tina Ndoh): Jonathan, the letter appears beside your name in the participant window

Jonathan R GA to Patrick Hamlett, Tina Ndoh, bob: I see ... duh ... thanks anyway

Juan N GA: come on people vote, its almost 11pm

foster f GA: give me the timeline and I can anticipate; evaluate, judge, etc. the future consequences

Moderator (Patrick Hamlett): Angel & Ariel: please vote now

Moderator (bob) to johan B ga: Those of you who have not yet voted - YOU HAVE ONE MINUTE. Then voting will be locked.

Jonathan R GA to Patrick Hamlett, Tina Ndoh, bob: I changed my vote to B

Virginia P WI: perhaps the people not voting are not there!

Jennifer C GA to Patrick Hamlett, Tina Ndoh, bob: Any update on possible direct deposit?

Catherine J NH: Let's close voting.

Juan N GA: exactly my thoughts Virginia

Teresita B CA to Patrick Hamlett, Tina Ndoh, bob: I want to go to the Bahamas!

alex r co to Patrick Hamlett, Tina Ndoh, bob: i assume the same thing

Abraham E CO: how dare they not be captivated by every word I type!

Tamera R Az: Exactly!

ariel t co to Patrick Hamlett, Tina Ndoh, bob: lol

foster f GA: so we have how many of 68 participants voting and we must have a majority plurality or something

Starlyn F CO to Patrick Hamlett, Tina Ndoh, bob: oh, like you guys were hanging on every word from the other teams!

Juan N GA: yeah lets tally the votes

Catherine J NH: It's 11:01.

Moderator (bob) to johan B ga: Voting is closed. Results in a moment. Then hang on - we will also post bios to the whiteboard for Tuesday's experts.

Abraham E CO: what kind of world do we live in where people don't want to sit around for 2 hours and NOT talk about nanotechnology?

Starlyn F CO to Patrick Hamlett, Tina Ndoh, bob: oops - thought we were all on now - sorry guys!

Don S WI: 68 includes all the moderators and group leaders who are just observing, I think

Jennifer C GA to Patrick Hamlett, Tina Ndoh, bob: Old question/results still visible/ toolbar is not active.

Moderator (Patrick Hamlett): Please be sure to read the written responses from the experts before Tuesday evening -- on the project web site

Virginia P WI: night

foster f GA: under new info , discussion, ?

Dana A WI to Patrick Hamlett, Tina Ndoh, bob: Can someone please permanently fix the first question from Team 1 so that it says public/private sector, and can we be sure that it was sent to the experts with both sectors in it? If not, can it be re-sent to them correctly? Thanks.

Jonathan R GA to Patrick Hamlett, Tina Ndoh, bob: I am looking forward to reading them.

Teresita B CA to Patrick Hamlett, Tina Ndoh, bob: Goodnight!

Moderator (bob) to johan B ga: B & C are the winners.

charles az: peace out you all

Vanessa L ca: this was great. Thanks for an awesome session you all\

Don S WI: There are 82 people listed on the 6 teams and I haven't seen us top 70 in a session yet, not including the moderators

Vanessa L ca: have a safe and beautiful evening

Abraham E CO: great...

Richard S (GA): later gators.....

Tamera R Az: Good job group 5

Vanessa L ca: Good night

charles p ca: Thanks everybody, see ya!

Moderator (bob) to johan B ga: Teams 6, 1, 2 and 3 will be active Tuesady for one half hour each, in that order.