

NCTF 2d On-line Session Transcript
Joined on March 6, 2008 at 9:00 PM EST

Moderator (Patrick Hamlett): For everyone's information: I am told by our accountant that, under new policy, stipend payments of \$500 (what your stipend will be) will not have taxes withheld and will not generate a 1099 form.

Moderator (Patrick Hamlett): I am now going to turn off everyone's chat, except Team 2

Moderator (bob): Hi folks. We're still logging in late arrivals. But we'll get started with team 2 shortly.

Moderator (bob): At this point all of Team 2 is chat enabled, everyone else is disabled.

Moderator (bob): We'll be changing slides. Please read.

Moderator (Tina Ndoh, NC): Reminder for daylight's savings time: Our next session will take place on Sunday from 9pm-11pm EST Please remember to set your clocks forward 1 hour!

Darlene J AZ: What about AZ who doesn't participate in daylight savings?

Moderator (Tina Ndoh, NC) to Jane L NH: Jane, no, we are not using an audio or video functions

Moderator (bob) to allison a ga: It will only go to moderators because your chat is disabled. You aren't on Team 2.

Jane L NH to Patrick Hamlett, Tina Ndoh, NC, bob: thanks...

trisha b az: So Dar we stay the same 7 pm

Diana I GA: since there will be a 3 hr time diff. won't you be starting at 6?

Moderator (Tina Ndoh, NC) to Jane L NH: Arizona facilitators will let you all know what's going on with your start time

James B AZ to Patrick Hamlett, Tina Ndoh, NC, bob: That's right 6pm

Darlene J AZ: Thanks Trish...

Moderator (Tina Ndoh, NC): Arizona facilitators will let you all know what's going on with your start time

Moderator (bob): OK - any Questions about those instructions? Please do not send messages unless ABSOLUTELY necessary if you are not on Team 2.

Moderator (bob): NEW SLIDE

trisha b az: you are right Bob. you are cranky

Frank C NH: Any chance of picking up on GA's question about manipulation of genes ... a la Nazis?

Moderator (Patrick Hamlett): Frank: Yes, we'll get there...

Diana I GA: I would like to know what other countries are doing-- can we get that info?

Moderator (bob): We are going to start by having each local group Team 2 get a chance to add any issues. We'll start with NH - Those of you from NH on Team 2 to see if anything needs to be added to the list

Frank C NH: No addition really. Concern about funding and access.

Moderator (Tina Ndoh, NC): Diana, we'll look into getting that information

Diana I GA: thanks

Moderator (bob): NH members of Team 2 - Are these a fair summation of the most important issues your group discussed?

Moderator (Tina Ndoh, NC): Frank, what specifically about funding...who is providing it?

Alexander T NH: Those seem like an appropriate general overview...

Frank C NH: Gov vs. private enterprise... public funding meaning public access, private funding meaning private (personal access).

Moderator (Tina Ndoh, NC): Frank, for research or access to the technology?

Frank C NH: Hmmm ... perhaps a general discussion of where money comes from. Grants go to those who have notions on how to fix things ... and once accomplished, how available are those fixes to the public.

Moderator (bob): OK - Now GA members of Team 2 - Here is what we have from last time. Any major issues from your local group to add?

Rexxor A GA: That sounds accurate from my recollection.

Diana I GA: we did raise the issue of how do religious beliefs interface w/such technology

Moderator (bob): Ok Diana - that's noted. Any others to add?

Rexxor A GA: Only one member specifically made the connection to the Nazi agenda.

Diana I GA: I agree, that was not a strong issue for most of us

Moderator (bob): Should we keep the issue & just knock the Nazi reference out?

Rexxor A GA: We also had issues regarding the process of humans using tech to affect evolution.

Diana I GA: Also-a concern about intentional misdeeds

Rexxor A GA: Yes, I believe.

Moderator (Tina Ndoh, NC): Rexxor, does item A cover your concern?

Diana I GA: I think it is ok to keep the Nazi reference as everyone knows the dangers that were apparent trying to create a master race

Moderator (Tina Ndoh, NC): Diana, can you clarify intentional?

Moderator (bob): Diana - Please clarify intentional misdeeds.

Rexxor A GA: Mostly.

Diana I GA: what I recall from our conversation was that there was fear/concern that such technology would fall into the hands of those who would use it to do "evil" or just find a way to profit from its use to the exclusion of others

Rexxor A GA: I think we were mostly evaluating the extremists (terrorists)

Moderator (bob): OK - I see.

Moderator (bob): WI members of Team 2 - anything to add?

Diana I GA: Speaking of profits--another area we discussed was how competition would come into play-

Moderator (Tina Ndoh, NC): Thanks Diana

Moderator (bob): Diana - we noted your issue. We'll post updated lists to the website after the chat.

Theresa B WI: Are we trying to add things also not covered by the other groups?

Moderator (bob): The goal here is to add any MAJOR issue that your group raised, not all of them.

Marissa S WI: We were concerned about privacy. Nanotechnology will likely introduce new and very discrete ways that government and private parties can learn private information about citizens.

Moderator (bob): In other words - is the list posted a fair summation of the MOST important issues to your local group last weekend?

Moderator (Tina Ndoh, NC): Thanks Marissa.

Moderator (bob): OK - Marissa adds the privacy issue. We're gonna need two slides for WI!

Marissa S WI: WI in the lead!

Nathan_C_WI to Patrick Hamlett, Tina Ndoh, NC, bob: Levels of risk assessment research.

Moderator (bob): Anything else from WI? or can we move to the next locale?

Theresa B WI: we can move on; I don't think there was anything else major

Moderator (Patrick Hamlett) to Nathan_C_WI: Nathan: Hold your thoughts until your Team is active (Team 4)

Nathan_C_WI to Patrick Hamlett, Tina Ndoh, NC, bob: Ahh sorry

Moderator (Tina Ndoh, NC) to Brett K CO: Welcome Bkuenne, we are working on Team 2 now, Team 3 will be next

Brett K CO to Patrick Hamlett, Tina Ndoh, NC, bob: ok thanks

Marissa S WI: Yes, we can move on to CO.

Moderator (bob): CO - Is the list posted a fair summation of your group's concerns? Anything to add that was a major issue?

Moderator (Patrick Hamlett): By the way, those of you just listening can register approval, disapproval, etc., by using the icons...

Moderator (bob): Hello CO! Anyone out there?

magda v wi to Patrick Hamlett, Tina Ndoh, NC, bob: yes

Teri B CO: My computer is slow with the slides. Sorry. I can't see them yet.

ELDRINE R CO: it looks good to me

John k NH to Patrick Hamlett, Tina Ndoh, NC, bob: that would have helped with the Nazi question

Moderator (Tina Ndoh, NC) to Teri B CO: Terri, what can you see?

John k NH to Patrick Hamlett, Tina Ndoh, NC, bob: my vote would have been keep the reference.

Moderator (Patrick Hamlett) to john k NH: John: Hold your thoughts until your Team is active, please

ELDRINE R CO: eldrine co looks good

Teri B CO: The screen is coming up in small portions. I can see part of A and B but that is all.

Moderator (Tina Ndoh, NC): Thanks Eldrine

Moderator (bob): Evidently the CO group list looks good to them, but Terri is having some tech difficulties.

Moderator (bob): AZ - It's your time

Teri B CO: I can see AZ concerns.

Moderator (Tina Ndoh, NC) to Teri B CO: CO Concerns

A. Long term unintended consequences-physiological and societal
B. Government involvement-regulation and subsidies for market

entry

C. Agreement that a huge part of being human isn't necessarily flesh and bone but also very experiential

D. Accessibility and equality, the ability (for this technology) to diminish experience and consequences that may shape the way people act or develop

E.

Terri, send me updates if you have any

Darlene J AZ: Sorry guys got booted off...I'm back on again...

Terry R AZ to Patrick Hamlett, Tina Ndoh, NC, bob: terry R AZ looks good so far

Moderator (Tina Ndoh, NC) to shannon_dinapoli_AZ: Shannon, that's all they gave us on Tues (maybe end of the night fatigue...let's see if they give us more tonight)

Moderator (bob): AZ - Any new issues to add, or is this a fair summary of major concerns for your group?

Moderator (Patrick Hamlett) to Terry R AZ: Terry: Please hold your thoughts until your Team is active

Stuart S AZ to Patrick Hamlett, Tina Ndoh, NC, bob: I think we are covered pretty well.

James B AZ to Patrick Hamlett, Tina Ndoh, NC, bob: We also were concerned about monopolies and big business. With the haves getting pref. treatment

Moderator (bob): Newcomers: PLEASE NOTE -the ground rules.

Darlene J AZ: As I had issues last time with my server...I wasn't privy to the discussion...but this looks like a very small list for AZ considering all that was discussed locally over the weekend

Moderator (bob): Especially Point #2.

Trisha b az: A wave is rolling in. A beginning of a revolution. We need a new awareness. The question is size. it is so different. 1 to 100/000 th. Big things from a tiny world. We are interested in exploring how these technologies will effect our human potential and our human spirit. Sorry this took a while. my brother's wife just had a baby.

Moderator (Tina Ndoh, NC): Darlene, please send us any additions that you can think of and we will add them to the list

Moderator (bob): TRish - We're not quite sure what this issue is. Could you clarify?

charles az to Patrick Hamlett, Tina Ndoh, NC, bob: hey sorry im late my comp is all F'ed in the A

Moderator (Patrick Hamlett) to charles az: Charles: Welcome aboard!

Moderator (bob): Remember - We are asking for additions of major issues from your local group from last weekend. Ones that all or most of the group thought important.

Darlene J AZ: Designer babies...and the impact on the gene pool

Moderator (Tina Ndoh, NC): Thanks Darlene, this will be added

Darlene J AZ: Cultural and gender genocide in selective what you feel is 'desirable' in your child

Moderator (Patrick Hamlett): Go, Darlene, go!

Darlene J AZ: or what you feel is important as a 'superior' race...I believe that was already bought up by someone in NH

Moderator (bob): If there are no other additions from AZ, we'll move on to CA.

Darlene J AZ: I'm not done

Moderator (Tina Ndoh, NC): alright, let us have it!

Moderator (bob): OK - we'll give you a minute.

Moderator (Tina Ndoh, NC): you're on a roll

trisha b az: The US is interested in growing economic benefits and improved quality of life for its citizens from the converging technologies.

Darlene J AZ: There are other major concerns regarding the qualifications of these individuals who are making these decisions

Darlene J AZ: regarding the future of nanotech

Darlene J AZ: what are the future ramifications of machines being 'smarter' than the people who created them? Terminators..??

Darlene J AZ: Food genetically being altered...terminator seeds are NOT NATURAL and WILL HAVE CONSEQUENCES!!!

trisha b az: Oh no, we are back at Star Trek stuff.

charles az to Patrick Hamlett, Tina Ndoh, NC, bob: umm my main concern is the government involvement but since we are on the subject, do you think that designer babies and beginning of superhumans

Moderator (bob): OK - issue noted. That seems an extension of the issue you raised a moment ago.

Darlene J AZ: Sorry...wasn't here Tues...

Moderator (Tina Ndoh, NC): Thanks for all the input

Darlene J AZ: forgive me...if I'm rehashing stuff from then...

Moderator (Patrick Hamlett): I've added Alan H & Angela C from CA to help Teresita, who is alone on Team 2

Teresita B CA: Ok, this is TB from CA, there were many similarities to those issues raised on Tue. In addition, economics and priorities. Healthcare and disease treatment, the environment vs. warfare and aeronautics. There is a strategic plan issued in Dec 2006, and funding priorities appear to go to Dept of Defense. Much discussion focused on who gets regulatory power, multi-agency and interdisciplinary oversight. Also, the need for public education on nano tech developments, and public review process.

charles az to Patrick Hamlett, Tina Ndoh, NC, bob: seriously and what will you tell those designer when they grow up if I was told that I was right when I was born I would kill myself

Moderator (Patrick Hamlett) to charles az: Charles: Please do not send private messages during another Team's active time. Hold your thoughts until your Team is active...

ALAN H CA: hold on i just woke up

Moderator (Tina Ndoh, NC): Trisha can you elaborate on economics and priorities

trisha b az: Yes.

Moderator (Tina Ndoh, NC): Does this mean funding priorities?

Teresita B CA: It's Teresita. A review of the 2009 Budget indicates highest amount going to DOD. Why isn't healthcare and disease treatment not prioritized?

Teri B CO to Tina Ndoh, NC: Tina--Is there only an A on this screen for CA concerns?

Moderator (Tina Ndoh, NC): Sorry, I meant Teresita

charles az to Patrick Hamlett, Tina Ndoh, NC, bob: my ass the education is so poor why do you think barely any funds go towards schooling for future generation

Moderator (Tina Ndoh, NC): Since CA did not have any panelists from Team 1 on Tuesday night none of their issues were raised. We will add all new issues presented tonight

charles az to Patrick Hamlett, Tina Ndoh, NC, bob: i will tell you why because the government wants the next generation to be domb

Tara V CO to Patrick Hamlett, Tina Ndoh, NC, bob: What is DOD

Angela C CA: I have a few things to add on economics/priorities too: Are all the involved agencies (I understand there are 20 gov't agencies, according to NNI) equipped to regulate nano?

Teresita B CA: Nanotech research is underway and the general public has some notion of it, yet given that almost \$1B is already dedicated to this, shouldn't consumers have more info readily available?

trisha b az: The National Technology Initiative is monies being spent for the US to have leadership in manufacturing that will improve human health, economic well being and national security.

Angela C CA: Do they have enough funding?

charles az to Patrick Hamlett, Tina Ndoh, NC, bob: why do you think nanotechnology was never mention in the past. this should have been espoused the moment the idea came to existent

Angela C CA: Will they be diverting funding from other program areas?

Moderator (bob) to charles az: DO NOT SEND MESSAGES TO THE MODERATOR COMMENTING ON THE DISCUSSION! SAVE YOUR COMMENTS FOR WHEN YOUR TEAM IS ACTIVE.

Moderator (Patrick Hamlett) to Tara V CO: Tara: DOD is Department of Defense. Please do not send private messages while another Team is active. Please wait until your team is active.

trisha b az: Angela who is they?

Angela C CA: Trisha: the 20 Gov't agencies involved in nano.

Angela C CA: ie) FDA, EPA, DOD, etc

ALAN H CA: that was one of the concerns...who which agencies regulate

Moderator (bob) to charles az: Any other issues to add from CA?

Moderator (Patrick Hamlett): Tina is preparing a new slide of CA concerns, & will post...

trisha b az: WI and AZ brought this up yesterday. It is hard to regulate something we do not yet fully understand.

Moderator (bob): Any other issues to add from CA?

Angela C CA: Additional concerns: 1) Increased corporate power, esp through the entire life cycle of the nanomaterial or product, 2) the ability of gov't agencies to be PROACTIVE rather than REACTIVE in protecting consumers (not prematurely approving products before adequate safety testing, 3) The "irreversibility" of nano, or recycling NM.

Teresita B CA: Please indicate healthcare and disease management as priorities.

Moderator (Patrick Hamlett): Tina's wording on it...

ALAN H CA: alternatives to nano tech was also brought up

Moderator (Patrick Hamlett) to Mark Philbrick CA: Mark: Yes, but Teresita's doing a good job all by herself!

Angela C CA: TO add to Trisha's point, the fact that we don't fully understand all this means we should be especially cautious in approving products that involve nano-- at least until it's further studied.

Moderator (bob): Alan - Not sure what that means. Could you clarify?

Darlene J AZ: I agree

Angela C CA: Ah, yes, thanks Alan! We wondered what more cost-effective, efficient, or safe alternatives there were.

Teresita B CA: There was also a concern for worker's protection, health and safety in handling the production of such materials.

ALAN H CA: Basically are there other technologies besides nanotechnology that can be more cost effective or ethical?

Angela C CA: ie) prevention strategies towards health issues, rather than expensive nano treatments.

trisha b az: The EPA last month. Asked the manufactures to report to them about the human health and environmental risks and benefits of nano scale technologies. This seems kind of backwards to me. To only know what we are told.

charles az to Patrick Hamlett, Tina Ndoh, NC, bob: hey am i on

Darlene J AZ: It's all backwards to me!!!

Moderator (bob) to charles az: No. Please refer to the team lists for when you are active.

Moderator (Patrick Hamlett): Tina's little fingers are flying across the keyboard...

Darlene J AZ: Why do we need nano tech if we just learn to take care of ourselves in the first place...

trisha b az: So add that to AZ concerns.. This all seems backwards to us.

Angela C CA: Finally, one more thing!! The SAFETY of workers involved in nanomanufacturing, both in the U.S. & overseas.

Angela C CA: Oops, you already said that Teresita. Thanks!

ALAN H CA: you're on top of it Angela

charles az to Patrick Hamlett, Tina Ndoh, NC, bob: well my teammate isn't on so come I will be a part of this convo

Angela C CA:

Moderator (Tina Ndoh, NC): The text is somewhat smaller due to the long list...feel free to expand your whiteboard area

Angela C CA: I was reading today that we have barely developed ways of testing the safety of nanoparticles in the environment & in the body.

Catherine J NH to Patrick Hamlett, Tina Ndoh, NC, bob: Tina, could you magnify the list, please, it's quite small type.

Moderator (Patrick Hamlett) to charles az: Charles: You are part of Team 5; please wait until Team 5 is active. Right now, Team 2 is active

trisha b az: How might workers be exposed to nano sized particles in manufacturing and how might these particles interact with our human bodies

Moderator (bob): We are approaching handoff time to Team 3. Does anyone from Team 2 have any final comments about the issues we've discussed so far?

Angela C CA: Its seems like putting the cart before the horse to be approving & putting these things on the market, when we don't even know HOW to test the safety of them.

Teresita B CA: I think there is a multi-agency approach to oversight, so congressional body is responsible for setting funding priorities?

trisha b az: This is an exciting time we are living in

Angela C CA: Let alone get everyone using nano to do the testing.

ALAN H CA: was disclosure of information brought up last time?

Angela C CA: We had concerns over ENFORCEMENT of regulations.

Moderator (Patrick Hamlett): You will have to enlarge the Whiteboard (drag on its edge) to get the type face to enlarge.

Catherine J NH to Patrick Hamlett, Tina Ndoh, NC, bob: Tina, I don't know how to magnify it, sorry.

Moderator (bob): Alan - I don't think it was brought up.

Angela C CA: Alan, did you mean consumer info / transparency issues?

Catherine J NH to Patrick Hamlett, Tina Ndoh, NC, bob: Thank you!

ALAN H CA: that was one of the concerns...how much information would be given toyes Angela

ALAN H CA: wow your quick

Diana I GA: I second the issue about worker protection

Darlene J AZ to Patrick Hamlett, Tina Ndoh, NC, bob: nanotech

ALAN H CA to Patrick Hamlett, Tina Ndoh, NC, bob: and how it relates to the freedom of information act

Moderator (bob): Angela & Alan - the issue about transparency/public information is noted & will be added.

Teresita B CA: whiteboard seems to be frozen?

Moderator (Tina Ndoh, NC): CA, we will add privacy concerns and transparency issues

ALAN H CA to Patrick Hamlett, Tina Ndoh, NC, bob: good stuff

Angela C CA: Tina: I think privacy & transparency are two diff things...

Catherine J NH to Patrick Hamlett, Tina Ndoh, NC, bob: You can move the whiteboard up and down, but I can't.

Moderator (bob): Angela - I agree & I think we have them as two separate issues.

Catherine J NH to Patrick Hamlett, Tina Ndoh, NC, bob: Now it's small again.

Angela C CA: OK- thanks

Moderator (Tina Ndoh, NC): We'll make CA two slides for Team 3... For now we'll just have to stick to small font

les k wi to Patrick Hamlett, Tina Ndoh, NC, bob: good work ca

Angela C CA: I think we got the main ideas down.

Moderator (Patrick Hamlett): Team 3 is now active

Moderator (Tina Ndoh, NC): Angela, oh yes, they certainly are, didn't mean to imply that was one issue

Moderator (bob): Bear with us folks. Creating those slides on the fly isn't easy.

Moderator (bob): OK TEAM 3! YOU ARE ACTIVE!

Angel D NH: yaaaay!

Angela C CA: Should those of us from CA originally on Team 3 refrain now?

les k wi to Patrick Hamlett, Tina Ndoh, NC, bob: go Tina go!

Moderator (Patrick Hamlett): Angela: No, you should continue to participate now

Moderator (bob): We're going to go through the same process as for TEAM 2. We want to make sure all MAJOR local issues have been covered.

Angel D NH: Is NH talking now?

Moderator (bob): We'll start again with NH.

Moderator (Patrick Hamlett): Tina is updating the NH list of issues

Moderator (bob): Unfortunately, the current slide doesn't have the updates from Team 2. Tina is working on that.

Angel D NH: Ok, one major concern I don't see listed is determining needs/wants.

Moderator (Patrick Hamlett): Angel: Can you clarify? What needs? Which wants?

Moderator (bob): Angel - As phrased, I'm not sure that's an issue.

Angel D NH: Such as actual fixes for medical needs, such as eyeglasses to give 20/20 vision.

emily m nh: Can governments just broadly specify what they want form this research and fund accordingly?

Angel D NH: But would also giving someone night vision be classified as a need or a want?

Moderator (Patrick Hamlett): Angel: Are you talking about the difference between remediation and enhancement?

Angel D NH: Yes, I just didn't see it on our list.

Moderator (bob): Emily - Governments do establish research priorities by deciding what to fund & what not. At least partially, because private funding can be used to develop tech. too.

Moderator (bob): Anything else from NH?

Angel D NH: I think that was pretty much it.

Angel D NH: Emily?

emily m nh: Concern: private sector influencing the government (we already see this a lot with Big Pharma lobby)

Moderator (bob): OK - Folks in GA. Here is the updated list. Any new additions to suggest?

Rexxor A GA to Patrick Hamlett, Tina Ndoh, NC, bob: I don't think Johan is on tonight.

Nichole C CO: Biggest concern of therapy vs. enhancement.

Nichole C CO: sorry

Moderator (bob): We'll round up more GA folks then.

Moderator (Patrick Hamlett): I've added Jonathan R & Kolila from GA, since we're short here

Jonathan R GA: This is supposed to be just Team 3 from GA right?

Jonathan R GA: Oh, well thanks.

Moderator (Tina Ndoh, NC): Emily- are you referring to regulation>

Moderator (bob): You've been drafted for Team Jonathon

Moderator (Patrick Hamlett): Jonathan: We're short of GA people tonight, so I'm recruiting you!

emily m nh: Another NH concern that came up: The focus on diagnosing/treating human illness instead of trying to prevent it in the first place.

Moderator (bob): Anything to add from Georgia?

Diana I GA to Patrick Hamlett, Tina Ndoh, NC, bob: from team 2 GA- can I just add that we also were concerned about treatment vs. enhancement

Moderator (bob): If not, we'll move on - Last chance.

Moderator (Tina Ndoh, NC): Diana, got it

Moderator (Patrick Hamlett): Juan: we're recruiting you to help Team 3 tonight -- any issues to raise?

Moderator (Tina Ndoh, NC) to Catherine J NH: Catherine, do you need something?

kokila r ga: Have we dealt with the ethical aspects of nanotechnology? I guess evil doing will take care of it to an extent

Jonathan R GA: I think our list is a pretty accurate representation of our views. The writer in me wants to reword some of them, but I shouldn't because they would be all mine, and less reflective of the group.

Tim H GA to Patrick Hamlett, Tina Ndoh, NC, bob: security of administrators (what else is in the implanted chip and might affect the person and/or track or change the person)

kokila r ga: We did talk about redefining humanity and what impact that would have on humans and the environment in general

Juan N GA: we talked about increasing lifespan and if people could live so long would they be able to choose when they want to die?

Moderator (bob): Kokil - Is that the same as D - Long term effects on quality of life?

Juan N GA: and kokila brought up a good point about destroying the natural order/cycle of things

kokila r ga: Yes, it will fall under that

JASON L AZ: Government using nano tech as part of black opps threw the patriot act.

kokila r ga: Also, if we choose to play god, then what about natural selection?

foster f ga to Patrick Hamlett, Tina Ndoh, NC, bob: Foster here sorry to be late board meeting ran late

Moderator (Patrick Hamlett) to foster f ga: Foster: Welcome aboard!

kokila r ga: We also worried about choice - for example, decisions made for a child

Juan N GA: issues about free will and choice. and passing down genetic enhancements to children who might not want them

Jonathan R GA: Kokila verbalized this very well in our group ... I am trying to remember how she put it. Sort of, if we change some genes for the better, what if that throws off the natural order of things somewhere else?

Moderator (bob): Jason - GA is up now. We'll get to AZ in just a bit.

JASON L AZ: ok

foster f ga to Patrick Hamlett, Tina Ndoh, NC, bob: Thanks, my apologies

Juan N GA: I think another group touched on this earlier

Moderator (bob): Kokila & Jonathon - Does A cover that - impact on the evolutionary process? If not how is your issue different?

Jonathan R GA: You know ... the same way small changes in food chains have much greater effects sometimes ... or the changes involved in global warning, and how they COULD bring about greater changes than we see at first...

Juan N GA: about buying something off the shelf to fix a problem rather than having preventative measures

Juan N GA: i.e. buying a replacement liver after youve damaged yours because of excessive drinking

Moderator (Tina Ndoh, NC): Juan and Jonathan, I think we've got your points

Jonathan R GA: yeah ... it covers it scientifically, but you can also look at it spiritually.

Stephanie U Ga to Patrick Hamlett, Tina Ndoh, NC, bob: I said it this way," I am a strong proponent of personal choice. But when we can change genetic make-up we take away the choice of future persons."

kokila r ga: We may be harming the natural balance by genetic engineering. There could be harmony in diversity and we may not be nurturing it by just nurturing the stronger gene

Moderator (Tina Ndoh, NC): we can add scientific and spiritual aspects

allison a ga to Patrick Hamlett, Tina Ndoh, NC, bob: juan had a good point in group it was...if something goes wrong with the technology do you go to the doctor or mechanic?

Moderator (bob): OK - We need to give WI their innings.

kokila r ga: In all of this, how come there is not that much talk about solving world hunger or global diseases?

Moderator (Patrick Hamlett): On Wisconsin, On Wisconsin!

John B WI: The capitalist system itself poses a concern. For potential products in the private sector, which would include health care, the research funds allocation tends to be very strongly influenced by profit potential. This would direct funds to areas where the biggest profit potential is, rather than the actual needs of society. The direction of research activity would also be heavily weighted toward military applications and other matters considered politically desirable.

Moderator (Patrick Hamlett): Tina's updating the WI issues list...

Jonathan R GA: Someone said earlier that "the Nazi's" were not that great of a concern. That the fear was in HOW they went about their science. I disagree. They wanted to eliminate all humans with defects of any kind. They wanted to prevent disabled persons from being to procreate. I think there is an inherent wrong or evil when you TAKE CONTROL to that extent.

emily m nh to Patrick Hamlett, Tina Ndoh, NC, bob: I didn't see the prevention of disease vs. the NBIC focus on fixing disease concern under NH or GA list even though we both brought it up?

Moderator (bob): Jonathon - it looks like the issue is what influence will profit motive have on tech development & access. Is that right?

Nichole C CO: How will this type of technology affect our right to privacy? A very big concern is about public servants such as police, firefighters, and military personnel. Will the public servants have the ability to consent to such treatments? If they reject treatments will they be denied the ability right to be public servants?

Nichole C CO: Sorry

Nathan_C_WI to Patrick Hamlett, Tina Ndoh, NC, bob: I agree with John. We see that with the less than 1% of government's \$1.3 billion in nanotech funding las year going to risk assessment research. Everyone is very excited about getting products to market, without giving much thought to risk, there is promise as well as peril.

Moderator (bob) to Nichole C CO: Nichole - WI is up right now. CO will be next.

foster f ga to Patrick Hamlett, Tina Ndoh, NC, bob: Pat/Bob

foster f ga to Patrick Hamlett, Tina Ndoh, NC, bob: Assume that groups 3 & 4 are active correct

Moderator (bob) to foster f ga: Teams 2 & 3 are active tonight.

Moderator (Patrick Hamlett) to Nichole C CO: Nathan: Please hold your comments until your Team is active. You're on Team 4

Jonathan R GA: I agree with John B. WI - the comedian Margaret Cho put it very well: "we could be curing diseases like AIDS, but instead we have science developing a variety of pills to create hard-ons (Viagra) where they were not before.

les k wi to Patrick Hamlett, Tina Ndoh, NC, bob: HAHAAAAHA!!

Moderator (Patrick Hamlett) to Nathan_C_WI: Nathan: please hold your comments until your Team is active. You're on Team 4

Moderator (Patrick Hamlett) to Nichole C CO: Nochole: sorry, wrong button!

Ricky L CO: Possibly true, but poorly worded

John B WI: There was also some concern about the fate of laborers as opposed to "thinkers". Memory and other mental enhancements would have to be somehow restricted to the intelligentsia, otherwise who would pick up the intelligentsia's garbage?

Angel D NH: Those who don't take the programming?

Darlene J AZ to Patrick Hamlett, Tina Ndoh, NC, bob: I think it was worded perfectly...

Moderator (bob): John - that looks like the access to technology issue. We'll add that to your list.

John B WI: True

Moderator (bob): We need to move on to the next locale - CO. OK here is the updated list. Anything to add?

Moderator (Patrick Hamlett) to Nichole C CO: It's Rocky Mountain time...

Moderator (Patrick Hamlett): It's Rocky Mountain time...

Nichole C CO: sorry.

Jonathan R GA: Coolorado Rocky Mountain Hiiiiiiiiiiiiiiii!

Moderator (Patrick Hamlett): Anything to add to the CO list?

Nichole C CO: So anyhow. I really like the point that someone else brought up. How will this technology affect the environment (recycling).

Nichole C CO: Currently we trash all of our technology without making full use of it.

Ricky L CO: Just because there is free access, does not mean that everyone will be onboard, nor would it be prudent to assume so, but the facts are... in a free world, everyone will have to make a decision, and ultimately live with the consequences of it...

Moderator (bob): Just a reminder - We are trying to get accurate lists of the MOST IMPORTANT issues that your group discussed last weekend. Don't add NEW issues that the group didn't discuss.

Moderator (Tina Ndoh, NC): Will note concern on recycling

Nichole C CO: Shout out to Abe. When do we start treating artificial intelligent tech like individuals?

Nichole C CO: No additional issues then

Moderator (Tina Ndoh, NC): Ricky, are you concerned about those who do not want the tech, but will be stuck with the consequences?

Ricky L CO: No

John B WI: Actually nanotechnology might make really enhance waste disposal problems by converting non-biodegradable items to biodegradables.

Moderator (bob): Nichole - True We want to be fair to your other group members. Don't add things that weren't discussed last weekend.

Ricky L CO: That's what freedom of choice means!

Angel D NH: Why not just enhance us to be able to absorb all these toxins.

Moderator (bob): AZ - Your turn. Remember. Don't add issues your group didn't discuss last weekend.

James B AZ: A big concern is expanding the gap between the haves and have-nots, and if the intelligentsia is so smart they should be able to pick up their own garbage.

emily m nh: maybe we should have less garbage

Moderator (bob): OK James - Was that an issue discussed by your group last weekend? Just checkin'.

James B AZ: Also big business having a monopoly. Yes it was.

Tamera R Az to Patrick Hamlett, Tina Ndoh, NC, bob: False kind of "perfection"

trisha b az to Patrick Hamlett, Tina Ndoh, NC, bob: We talked about some positive uses of the changes of the molecular structure. In Suntan lotion. Protective coatings and you could add stain resistant clothing. Making our life easier and our bodies better protected .

Moderator (Patrick Hamlett) to Tamera R Az: Tamara: Please hold your thoughts until your Team (Team 5) is active

Tamera R Az to Patrick Hamlett, Tina Ndoh, NC, bob: sorry

Abbey J WI: It seems like there are a few main issues that just keep getting re-worded

JASON L AZ: N.S.A and F.C.C. should over see regulations for the surveillance side of nano

Moderator (Tina Ndoh, NC): Thanks Jason

Moderator (bob) to Abbey J WI: Abbey - Good observation. We'll be sorting that out in future sessions.

James B AZ: that should just about cover it

Jonathan R GA: Was there any particular reason why you chose those two agencies?

Moderator (Tina Ndoh, NC): CA- your list was divided in half to accommodate all the issues, let me know once you've read all this and we will move on to the second slide

Moderator (bob): OK - if that's it for AZ. Let's move on to CA.

JASON L AZ: Yes, because it's being used for spying

Moderator (Patrick Hamlett) to Tamera R Az: Alan H & Charles P can join Angela in reflecting CA issues

Jonathan R GA: I get ya

Moderator (bob): CA - You are up. Remember - don't add new issues. Does that list reflect the most important issues your group discussed last weekend?

Moderator (Patrick Hamlett): Alan H & Charles P can join Angela C in reflecting CA issues

Moderator (Tina Ndoh, NC): I am going to switch to the 2nd slide....

ALAN H CA: I don't know how much more we can add? angela?

Moderator (bob): Alan - I must admit. You do have quite a few issues up there.

Moderator (Patrick Hamlett): Alan: It's a long list now & we're only trying to insure that the most important issues are covered

Angela C CA: Will we be able to view slide 1, Tina?

Moderator (Tina Ndoh, NC): There you go

Charles P CA: I would have to say that pretty much covers the concerns we had.

ALAN H CA: negative aspects of nanotechnology?

Angela C CA: I think it does cover the most important concerns.

Moderator (Tina Ndoh, NC): Alan, can you be more specific?

Angela C CA: Will we get a chance to emphasize our biggest concerns or narrow down the list later?

ALAN H CA: Do they know of any negative aspects of nano and have they or will they disclose them

Mark Philbrick CA to Patrick Hamlett, Tina Ndoh, NC, bob: They're missing one big one, which was: If we eradicate death, do we have to eliminate birth?

Moderator (Tina Ndoh, NC): Angela, yes there will be time for identifying top concerns later

emily m nh: hey CA, impressive list

Moderator (Tina Ndoh, NC): ok, thanks Alan, will add that to the list

Moderator (Patrick Hamlett): Those folks in CA are just over-achievers...

Abbey J WI: Must have been very productive in CA to have 14 MAIN topics

Angela C CA: May I just clarify on G: this includes returning nanomaterials to bulk size as well as unintended consequences of releasing NM into the enviro/our bodies.

ALAN H CA: we had a lively group

Charles P CA: It was all due to our fabulous facilitators.

Moderator (bob): TEAM MEMBERS FOR \$, 5 & 6. Do we need to go through this process again, or are you satisfied that all major issues discussed in face-2-face sessions are now on the floor? If so, we can start looking for common issues across all groups next time.

Angela C CA: Both the irreversibility of the materials themselves as well as effects.

Moderator (Patrick Hamlett): Everybody's chat is now active

Moderator (bob): That was supposed to be teams 4 5 and 6

les k wi: yay!!

patrick m CO: new ground would be great

Juan N GA: I participated today so I'm good

ALAN H CA: yes bob I believe that is true

Charles P CA: I say let's move on to common issues

Santiago M AZ: I am satisfied with the issues brought up so far

Stephanie U Ga: I am a strong proponent of personal choice. But when we can change genetic make-up we take away the choice of future persons.

Moderator (Tina Ndoh, NC): Angela, does noting irreversibility of the materials and their potential impacts cover the concern raised?

Richard S (GA): definitely.... I noticed that ALL the groups share very similar concerns....!

Tara V CO to bob: No, I think we have definitely covered it all-- getting a little redundant

Abbey J WI: Going through this process for three more groups will lead me to the edge of sanity...

Starlyn F CO: I'm on team 6 - and I feel we should move on. Same issues, primarily, are being discussed.

Virginia P WI: let's go forward....

mary d CA: The California issues/concerns seem to be complete -- I vote we move on to narrowing scope.

Moderator (Patrick Hamlett): We don't want to leave anyone's issues unheard or ignored...

Jennifer T NH: I'm good with what we have covered

Santiago M AZ: from my perspective, it would be healthier to move on to the discussions

les k wi: onward

Stephanie U Ga: I guess it was already covered.

Madhavi D WI: Yes I think almost all issues have been touched upon

magda v wi: I feel major issues were covered well

kokila r ga: Onward we go!

Terry R AZ: Terry R AZ looks like a great start

Nichole C CO: We can move on

Angela C CA: TINA- yes, I think so.

Alex Ra CO: I don't recall if this was discussed?? With prolonging life as it relates to overpopulation and rise of healthcare????

James B AZ: it looks as if we're in agreement

Alex Ra CO: sorry

john k NH: from group 6 in NH I think there are other things.

JASON L AZ: Yea, considering I logged on late

trisha b az: The positive aspects of nanotechnology in our everyday life. like suntan lotion and stain resistant clothing.

Tamera R Az: I'm fine with moving forward

Moderator (bob): It looks like most people are satisfied that the major local issues are on the floor. We'll start "unpacking" issues in our next session when TEAMS 4 & 5 will be active.

allison a ga: the issued were covered very well

Don B NH: Our team from NH wrote up a list of most important issues and posted them on the website - that is our most complete and accurate list ..

Don S WI: I think we can probably move forward but it might be nice to be able to look over a comprehensive list all the issues in one list, if maybe the moderators are thinking about putting that together before Sunday night

Eric B CO: my theory is that being well longer into life based on enhancements might decrease healthcare

ALAN H CA: oh john

Angel D NH: Is there any way to change a team?

john k NH: So team 6 will not meet next week?

allison a ga: wow

Angel D NH: 4-5 will.

Peter C NH: One thing that was discussed in the NH group, but hasn't made it here is my concern that there seems to be little concern with the application of these technologies for broader social purposes rather than individual enhancements. For example, could the use of chemically 'smart' particles be used to monitor the health of a harbor or a rainforest? Does it say anything about the process that none of these concerns even made the background paper?

Abraham E CO to Nichole C CO: Hey, I appreciate the shout out, it was the most exciting part of an otherwise mind-numbingly boring night

Andrea C WI: I can think of a few issues that I recall. 1.) Toxicity and environmental impact of nanoparticles; Strong privacy concerns, specifically how the government will handle things; Abuse by the insurance industry via denial of coverage and also how new procedures would be addressed/covered. There were a few others, but I would have to check my notes.

James B AZ: hey angel you can be on ours

Moderator (Tina Ndoh, NC): Don S, all this will be posted to the website (with updated slides)

Nichole C CO to Abraham E CO: Absolutely!

marc s nh: I'm from group 4, and I feel like we as a whole are concerned with the same things. We need to specifically say what we want from our government, and from the science itself.

Moderator (bob): Looks kinda like consensus - Moving on. Tomorrow the updated local issue lists will be posted at the website. Please review these before Sunday (if you are Teams 4 or 5). We're going to look for common threads and getting down to digging to those issues.

Andrea C WI: Woops, I didn't number all of the concerns I listed. I trying to type fast before getting cut off.

Janine CA: bye

les k wi: main my eyes are burning out of my head from all the reading

marc s nh: Where are these experts we're supposed to be talking to?

ALAN H CA: no don't go Janine

Andrea C WI: I'm not part of the consensus, but then again I rarely am.

allison a ga: nite to all

Jennifer C GA: Good Night Mrs. Calabash, wherever you are. Thanks from East Point, GA

Darlene J AZ: neither am I

Moderator (Tina Ndoh, NC): Peter, your concern raised will be noted

James B AZ: remember AZ we're on from 6 to 8 pm

Abbey J WI: I'm right here Marc, hee hee

Darlene J AZ: I'm a processor...

Angel D NH: is there any way to change teams...10-11pm is kinda late for a 6am morning.

Darlene J AZ: when?

Moderator (Patrick Hamlett): The experts will join you on-line after we generate specific questions for them

Don B NH to Peter C NH: peter, you think you were heard amidst the chaos?

foster f ga: good night all; interesting comments

Virginia P WI: tada

Moderator (bob): DON'T FORGET THE TIME CHANGE FOR SUNDAY!

Tamera R Az: We are on in Az from 6-8 on Sunday?

Don S WI: Peter C & others - I share your concerns about enviro issues, WMDs, etc., but remember everyone that this particular study is supposed to be focused on human enhancements through NBIC

Moderator (Tina Ndoh, NC): All new issues will be added

Moderator (bob): Feel free to log out. Good night.

john k NH: I think the NH group has more to add from our first list!

ALAN H CA: imortatlity!!!!

James B AZ: yes go to Pacific Time

Richard S (GA): nite all.....

JASON L AZ: good night

Moderator (Patrick Hamlett): Good work all --Ta!

Jonathan R GA: Goodnight to all my peeps!

Darlene J AZ: Somebody email with the correct time...trisha said 7 and James said 6pm...

ALAN H CA: good job angela

marc s nh: good night. sleep tight. i love you all.

charles az: can i talk now

Angel D NH: And I appreciate the offer James :P

charles az: please

Darlene J AZ: I'm outta here....nite

trisha b az: There are better commedians

Richard S (GA): GEORGIA FOLKS.....GOODNITE!

Charles P CA: GOODNIGHT!

kokila r ga: Good night everyone!

Teri B CO: good night!

Terry R AZ: terry r az stuart S going to Hamfest?

Angel D NH: Now where can I mail my billl to, James NH, or just bring em to the face to face

Teresita B CA: Got bumped at 7:23 and just reconnected???

James B AZ: you won't be buried in snow around here

Tamera R Az: I second notion for E-mail about times in Az

John E WI: good night, wisconsin

Angel D NH: Hey, we melted down...Um, a little.

magda v wi: good night john boy

Tamera R Az: Goodnight everyone

Mark Philbrick CA: Sorry to hear that, Terry. We're closing down.

Tim H GA: see ya!!