Title of Session: FIRST Robotics

Moderator: Patricia Chen **Title of File:** 20070814robotics

Date: August 14, 2007

Room: Robotics Group (K-12)

BjB: Welcome to Robotics, everyone. The discussion will start in about 5 minutes

PatriciaCh: We will do introductions once everyone is here

BjB sighs happily...you have no idea how hard everyone worked on learning how to get to this group room, Pat!

BjB hopes that everyone comes back for more monthly chats after working so hard

PatriciaCh: I had trouble in the beginning too

PatriciaCh: Let's do introductions now

PatriciaCh: My name is Pat, I am 7th grade math teacher in Florida and very involved in robotics

BjB: Welcome to this month's Robotics chat...the first one of this school year!

JosephAW: My name is Joseph. I am a college student in McAllen, TX.

AraceliaG: I am a full time student and a pre-k teacher aide Robotics sounds very interesting

LoriOl: my name is Lori...senior at the university of Texas Pan American.

JacquelynP: I'm an English major from Harlingen, TX

NoraEG: I am a full time student @UTPA

VictoriaNG: Torie a full time student at utpa

IrmaalcatG: I am from Edinburg, TX and I am a senior at UTPA

AidalinS: my name is Aida and I am a full time student at utpa

AidalinS: me too Irma

LoriOl: I think we are all here for doc browns class at utpa

NoraEG: Oh yea I am a senior too

LoriOl smiles

NikkiC: yep, me too

VanessaT: hi I'm a college student at UTPA and I'm a senior

IrmaalcatG: oh that's great

NuviaS: I'm a full time student @ pan am

JasmineR: My name is Jasmine I will be graduating soon this December from the

university of Texas Pan American

PatriciaCh: what does Dr. Brown teach?

AraceliaG: oh and I will graduate on Saturday

NikkiC: I'll be graduating in..09

LoriOl: English

NikkiC: English...this is "Composition Techniques"

AidalinS: I will graduate in December as well

GracielaC: I will graduate this Saturday too

NancySal: I am going to be a graduate student on Saturday

PatriciaCh: What is his or her assignment

JacquelynP: just attend for extra credit

JacquelynP: and write what you learned

NoraEG: extra credit

LoriOl: to visit a online presentation and see how this can help us teach

JosephAW: She wants us to integrate technology into our pedagogy.

IrmaalcatG: her assignment is to attend to get extra credit

AraceliaG: one presentation is required

JasmineR: not really it is also an assignment

NuviaS: is an extra credit assignment

PatriciaCh: ah

NikkiC: ditto, extra credit

AidalinS: thank god for extra credit

AidalinS smiles

PatriciaCh: nice teacher ... I wish I had someone like that when I was an undergrad

NoraEG: that's right also, our professor wants for us to integrate pedagogy

JasmineR: it is useful b/c we get to meet teachers like yourself

LoriOl: yeah she makes you think about stuff you never thought about

VictoriaNG: yea

AidalinS: yeah

NoraEG: I have learned a lot so far

NuviaS: good teacher right

IrmaalcatG: yeah me too

AraceliaG: she has taught us a lot in a short amount of time

AidalinS: yes very good

PatriciaCh: Let me give you background info the website that I will be referring to is www.usfirst.org

PatriciaCh: Dean Kamen founded the FIRST organization ... hoping to excite kids to study science, engineering, etc

PatriciaCh: robotics transcends through the k - 12

VictoriaNG: when does this start?

NuviaS: so let's start

BjB: Patricia has started...remember the 10 steps to having a successful discussion?

NikkiC: yes

VanessaCas: yes

AidalinS: yes

IrmaalcatG: yes

PatriciaCh: the younger students k - 3 uses the big blocks, 4 - 8, uses the regular LEGO, high schoolers have the big robots as well as VEX ... smaller metal robots

BjB . o O (listen to the discussion leader was on that list)

PatriciaCh: the aim of FIRST is to teach students to work together ... collaborate ...

AidalinS: yes I agree

NoraEG: interesting

PatriciaCh: each year FIRST... creates a game scenario ... the kids have to create a robot to play the game

NoraEG: I bet they have to do a lot of thinking

AraceliaG: blocks are very good for my pre-k kids

NuviaS: it sounds interesting

VictoriaNG: creative

PatriciaCh: a different scenario is created for each grade level so if you visit the FIRST site ... you will see the past years' game

NancySal: It sounds difficult

IrmaalcatG: yeah

NancySal: is it the tennis

PatriciaCh: as the grade level goes up ... other components are added ... there are research projects that are part of the game

PatriciaCh: no it is not tennis and it does sound difficult ... but it is not

PatriciaCh: even if you do not participate in the games ... you can use the concept to

teach in your classroom

PatriciaCh: any one would like to guess how?

IrmaalcatG: I didn't know about this

NoraEG: no

IrmaalcatG: no

GracielaC: no

NuviaS: no

NikkiC: that's a tough one

VanessaT: nope don't know

JacquelynP: I don't know

IrmaalcatG: to work as a group?

PatriciaCh: yes ... work as a group

NancySal: maybe by watching what is going on you can have an idea on how to interact

this to your class

PatriciaCh: let's say you have to make a robot out of LEGOs .. program it to go forward

NancySal: how would you do that

PatriciaCh: is there more than one way to create this robot?

NuviaS: by pushing it

IrmaalcatG: yes I guess

PatriciaCh: this is how we teach kids to learn to listen and compromise

NancySal: yes maybe by pushing it

NikkiC: well...you can use different schematics you mean?

NikkiC: I'm a bit confused :(

PatriciaCh: yes

NuviaS: yes you can also create a robot from paper and other materials

VanessaCas: this is cool

PatriciaCh: Nikki your robot can look different from mine

AraceliaG: very interesting

AidalinS: yes very interesting

PatriciaCh: the whole point is for kids to learn to listen and compromise

IrmaalcatG: but what do you mean? like students should follow the teacher instructions?

PatriciaCh: no ... students should think for themselves

AidalinS: this website is very useful

VictoriaNG: I agree

PatriciaCh: just like what Nuvia was doing

VanessaCas: I see now

IrmaalcatG: oh ok

PatriciaCh: kids learn that there is no right or wrong way ...

IrmaalcatG: they have to figure it out by themselves

PatriciaCh: yes ... we provide guidance

NancySal: wow

AidalinS: yes but the students should find out for themselves

IrmaalcatG: oh ok

LoriOl: got it thanks

PatriciaCh: and for kids who never feel that they are good at something

PatriciaCh: you should see their faces

VanessaCas: you just tell them basic steps and then they use their imagination to be

creative

NikkiC: aww, it raises self esteem

PatriciaCh: yes it does

NikkiC: and makes them more capable

IrmaalcatG: oh that's great

AidalinS: yes I agree with Nikki

LoriOl: some people are hands on learners...this is perfect for them

PatriciaCh: and for kids who are not as tech oriented ... there are other facets ...

AidalinS: yes it is

PatriciaCh: like doing a presentation explaining how to solve a problem

NuviaS: yes I agree presentations really help

PatriciaCh: the kids learn to work togetherand appreciate each other as teammates

PatriciaCh: this is also good for kids who do not play sports

JasmineR: yes, that would accommodate my needs I'm really not a tech person

LoriOl: social skills are integrated...that's good

JosephAW raises hand with question: What sort of problems (social, technical...)

IrmaalcatG: yeah I wish I had that too

PatriciaCh: the problem is ... the mission of the game

PatriciaCh: two years ago ... the mission was to solve ocean pollution

AidalinS: yes that is the problem

NancySal: oh I see

PatriciaCh: so how to we go about doing that

NuviaS: I see it toooo

PatriciaCh: first you have to learn what is polluting the water in your area

IrmaalcatG: yeah

PatriciaCh: find solutions

LoriOl: ok

PatriciaCh: how will it be implemented ..etc

VanessaT: true

NuviaS: very true

PatriciaCh: the kids have lots of great ideas

LoriOl: and if they work...that would be awesome

AraceliaG: and they feel involved and they are making a difference

PatriciaCh: now ... in your classroom ... you can create a scenario

PatriciaCh: and asked them to solve it

VanessaCas: that's neat

VictoriaNG: interesting

JasmineR: I like that

NikkiC: it's weird...kids seem to have some of the best ideas because they're not afraid that they'll seem farfetched or anything--and then when they say them it's like hey, why didn't I think of that

IrmaalcatG: cool

PatriciaCh: but make it meaningful ... no fluff

JosephAW thinks of incorporating with Lord of the Flies lesson

PatriciaCh: the younger they are ... the best ideas come out of them

VanessaT agrees with Nikki

NancySal: true

PatriciaCh: terrific ... this extends into all subject area

NuviaS: yes it's true the younger they are the more ideas they develop

LoriOl: so do you use this in your classroom Patricia?

PatriciaCh: Joseph if you do that ... please come back and let me and everyone know ...

how it went

JosephAW: Will do

PatriciaCh: yes not building ... but the concept

NuviaS: the concept is what counts

PatriciaCh: like solving word problems ... as a math teacher .. I use algebraic concepts

IrmaalcatG: and how they feel about it?

NuviaS: good method

JasmineR: awesome

PatriciaCh: but kids can solve the problem in other ways .. it doesn't have to be "my

way"

AidalinS: yes very good method

PatriciaCh: as long as they can explain .. and get the right answer .. why not?

LoriOl: critical thinking

IrmaalcatG: yeah as long as they solve the problem and learn

AidalinS: I like critical thinking

PatriciaCh: yes ... and it helps with the high stake testing

NuviaS: as long as they understand what they are doing

PatriciaCh: confession time

JasmineR has a question

PatriciaCh: yes

LoriOl: uhh ohh

PatriciaCh: question?

JasmineR: how can this be used in writing? can it be used in it in any form?

NikkiC: good question...

NoraEG: good one

VictoriaNG: very good

JosephAW: Problem solving is used in discourse.

PatriciaCh: when you teach writing ... do you only have one way?

NoraEG: no

IrmaalcatG: no

NikkiC: of course not

JasmineR: nope

VanessaT: no

NuviaS: nooooo

BjB puts in a plug for the WriteTalk group

PatriciaCh: What I am trying to say is your introduction can be different from mine

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BjB: www.nwp.org

VanessaCas: there are many ways for everything

JasmineR: that's true

NuviaS: of course

PatriciaCh: Some people have a great first sentence and some has a "blah" one ...

PatriciaCh: as long as the student follows the rule .. so to speak ... it works

PatriciaCh: again I relate it back to math ... there is one correct answer.. but many ways

to solve it

NoraEG: oh yes

IrmaalcatG: yeah that's right

VanessaT: I see

NuviaS: yes because there's many ways to get a correct answer

IrmaalcatG: but some times teachers want you to solve it their way

PatriciaCh: this is also another way to differentiate instructions

VictoriaNG: that's true

NoraEG: that is also true

NuviaS: yes, but that is not the right way to teach

IrmaalcatG: yeah you are right

PatriciaCh: it is very sad for those teachers

IrmaalcatG: but I guess those teacher don't know that

PatriciaCh: well ... I was kind of that teacher once ...

IrmaalcatG: really?????

PatriciaCh: but robotics ... really help me to see things better

JosephAW listens

IrmaalcatG: and how you changed that?

PatriciaCh: we math teachers are "anal retentive" ...

IrmaalcatG: ho ok

LoriOl: lol

NikkiC: yeah you guys are!

JosephAW: NOOO

VanessaT: lol

IrmaalcatG: lol

JasmineR: I'm sorry for my ignorance, what is that?

NikkiC: but I don't know, with math you sort of have to be though right...because sometimes you'll get the right answer the "wrong way" but it only works sometimes

LoriOl: what is anal retentive?

NikkiC: a lot of times you can get the wrong answer

NikkiC: like...

NikkiC: constipated

PatriciaCh: something about robotics ... learning that there are more than one way ...

PatriciaCh: math teachers are known to be inflexible

NuviaS: of course they are

IrmaalcatG: and why is that?

PatriciaCh: that is what anal retentive means ... and there are lots of us

AidalinS: I wonder why

JosephAW thinks they are like grammarians

PatriciaCh: I have no clue

IrmaalcatG: yeah me too

PatriciaCh: yes Joseph .. you are right

PatriciaCh: but that is hard on kids

IrmaalcatG: well nobody born knowing everything

LoriOl: frustration sets in

PatriciaCh: some times ... they can reason it out ... and get the right answer ... but not do it the teacher way

NoraEG: I bet

JasmineR: but sometimes those teacher's ways of teaching help you in the long run

NuviaS: yessss

JasmineR: they have certainly helped me now in college

LoriOl: or can hurt you in the long run!!!

PatriciaCh: the whole idea is to teach "smart"

PatriciaCh: math is not hard ...

NoraEG: I love math and that's because I also had one bad teacher

PatriciaCh: well a bad teacher can turn you off a subject area

PatriciaCh: okay ... aside from Joseph .. anyone has an idea how they may implement this in their classroom?

VictoriaNG: that is very true. being a creative teacher makes it interesting to learn the subject

AraceliaG: true

LoriOl: this gives me good ideas

PatriciaCh: any creative ideas?

JasmineR thinking

LoriOl: well I am now thinking about how to clean the ocean:)

PatriciaCh: okay .. how?

BjB: I think for new teachers, the hardest thing to do is learn that if your lesson doesn't work one way, try something different

JasmineR: in politics perhaps? on war issues or such?

JosephAW: Teaching is a problem solving subject in itself. Could involve a lot of trial and error.

LoriOl: ok...scientifically pH can effect everything...would it help clean up the ocean???

LoriOl: changing the pH I mean

NoraEG: I guess some of us are afraid of trying

NuviaS: by using different kinds of manipulative

PatriciaCh: think small ...

NancySal: good one Nuvia

PatriciaCh: small tasks

VanessaT: well by one just picking up trash and little things at our beach

PatriciaCh: terrific ...

VanessaT: and go on from there

JosephAW: or starting a clean up campaign

AraceliaG: that's a start big improvement

PatriciaCh: yes that is what a kid will say ... and another child will add to it

NuviaS: I believe that hands on will always help students because since they are actually

seeing what they are doing

LoriOl: that's too small though....it wont help the big picture

PatriciaCh: kids what to see the results and it makes them appreciate things

PatriciaCh: every little effort adds up

VanessaT: kids think small and then it will get bigger

LoriOl: yes

AidalinS: yes

JosephAW: not doing it does hurt though, Lori

GracielaC: I agree

IrmaalcatG: yeah

PatriciaCh: the "pass it on" concept

VanessaT: yeah the pass it on

AidalinS smiles

PatriciaCh: when you have big ideas .. implementation is overwhelming

NuviaS: the pass it on concept would just make the students more involved

VictoriaNG: letting the students think on their own really helps make it easier to learn

PatriciaCh: absolutely ...

LoriOl: ok...so we clean our beach....then what?

LoriOl: clean it again...and again...and again

IrmaalcatG: we need to keep it clean

LoriOl: we have to stop the pollution

PatriciaCh: do you have sewer runoffs?

AidalinS: yes we do need to stop the pollution

LoriOl: stop the pollution and there is no need for cleaning

IrmaalcatG: because the hard thing is to maintain it clean

AidalinS: no

PatriciaCh: create a reef for the fishes

NoraEG: I did yesterday

NikkiC: what are some of the creative ideas that kids have given you about pollution and

the ocean clean ups

NikkiC: or...is that just an example?

PatriciaCh: aside from beach clean up in Florida ... we are concerned about the

"creatures" that inhabit the water

PatriciaCh: Nikki .. it was an actual game one year

NikkiC: oh?

PatriciaCh: we have manatees that are hurt by boat propellers ... how can we help them

VictoriaNG: engineering new manatee safe propellers

PatriciaCh: the ocean was the main idea but the students came up with beach pollution

and save the manatees

LoriOI: have state vets go out there and help

NikkiC: wow

PatriciaCh: actually the kids were thinking like Victoria

VictoriaNG smiles

NuviaS: woooooow

GracielaC: wow

IrmaalcatG: kids said that?

IrmaalcatG: wow

PatriciaCh: other schools that came to the competition ... their focus were on other

things

VanessaT: very interesting

PatriciaCh: yes Irma

IrmaalcatG: wow

NuviaS: what other things

IrmaalcatG: yeah what other things?

VanessaCas: that's very interesting

PatriciaCh: depending on your area ... there are runoff problems, causes for the red tide,

etc.

PatriciaCh: I told the kids ... what the main concept ... I let them talk it out

NoraEG: good concept

NancySal: yes

PatriciaCh: I had 6-8 grade kids ...

LoriOl: we live by Mexico, who dumps into the Rio Grande river, which then goes into

the gulf of Mexico....dealing with a different country is much harder

NancySal: true Lori

JasmineR: yeah

NoraEG: so what do we do

PatriciaCh: yes ... you have that problem states and cities too

JosephAW: Does anything come out of these creative answers...Beyond FIRST?

LoriOl: we can clean and clean...but they dump and dump

AraceliaG: very serious problem

NoraEG: I would say

GracielaC: yeah

PatriciaCh: Joseph .. what do you mean?

NuviaS: We got to do something about this

NancySal: the more you try to help the bigger the problem gets

JosephAW: Are some solutions taken higher up (sort of speak)?

LoriOl: like some of the inventions the kids come up with?

PatriciaCh: I do not remember the specifics ... but I remember one team's idea was

presented to some group ...

PatriciaCh: it had to do with helping the handicapped

LoriOl: that would be awesome....global warming solved by an 8 year old :)

NuviaS: very interesting

PatriciaCh: the founder Dean Kamen invented the insulin pump

JasmineR: wow

PatriciaCh: he was in high school at the time

LoriOl: wow

IrmaalcatG: wow

JosephAW: nice.

JasmineR: genius

PatriciaCh: even if the ideas sort of do not go anywhere... the kids are inspired to think

IrmaalcatG: by himself or in group?

LoriOl: I wonder if he had diabetes?!

PatriciaCh: himself ... his brother was a diabetic

VanessaT: wow

IrmaalcatG: oh ok

JosephAW: I work at a science and technology high school that does that sort of thing.

PatriciaCh: his company invented the Segway

NikkiC: are you from TX Joseph?

PatriciaCh: some of the kids who are involved in robotics goes on to study science, etc

... and some do not ... and it is okay

AidalinS: what is the segway

PatriciaCh: A Segway is a motorized scooter

PatriciaCh: you stand on it and it runs on electricity

BjB: www.segway.com

AidalinS: very interesting

LoriOl: we see those at school

PatriciaCh: some police departments uses it

BjB: MAY I HAVE YOUR ATTENTION, PLEASE?

BjB: This has been a wonderful discussion, everyone!

PatriciaCh: yes it has been ... please let me know how your lessons turn out

IrmaalcatG: yeah I like it

BjB: I hope you appreciate Pat sharing so much of her experience with you!

AidalinS: yes I do

JoanieP: yes

JasmineR: I certainly did

NancySal: oh yes I appreciate it

LoriOl: I do...awesome job

NoraEG: good job Pat

NuviaS: thank you Pat

NikkiC: thanks Pat

VanessaT: thanks

JasmineR: Great Job Pat

IrmaalcatG: yeah it was great

AidalinS: clap

NancySal clapping

BjB: Pat leads a Robotics discussion twice a month. The next one will be on August 28

PatriciaCh: Thanks ... as a veteran teacher ... I am willing to share

NoraEG: Yuppi

GracielaC: clapping

LoriOl: gold stars for Pat ..LOL!!

JosephAW: Thank you Pat

PatriciaCh: I hope to see some of you in the next session

AidalinS: great job Pat

BjB: Save some of that applause for yourselves...great input

NuviaS: claps claps

NoraEG: you sure will

PatriciaCh: thanks

IrmaalcatG: yeah thank u Pat

GracielaC: good job Pat

LoriOl: when is your next session

PatriciaCh: 8-28

AidalinS: very interesting presentation

LoriOl: ok...thanks again to both of you

VictoriaNG: very good

AraceliaG: thanks really enjoyed it

PatriciaCh: it is a different way of thinking how to teach

AidalinS: is the presentation over already

BjB: yes, Aida...an hour has flown already!

AidalinS: ok thank you all

NikkiC: bye everyone!

GracielaC: thank you everyone

PatriciaCh: good night everyone

JacquelynP: thank you, it was very interesting

IrmaalcatG: ok thank u BJB and Pat

JacquelynP: have a good night everybody