Among innumerable research projects across the literature, a semi-living artist is breaking ground in bioengineering and art. What at first glance seems to be a confusion of cables, computers and cell cultures in a fridge is in fact a living entity capable of producing, albeit in primitive ways, art pieces. Its name, complete with a subtle reference to its purpose, is MEART.

The Multi-Electrode Array (MEA) project was spawned from the artistic minds of Philip Gamblen and Guy Ben-Ary of the SymbioticA Research Group at the University of Western Australia. SymbioticA is a unique place in that it is located in a scientific department and formalizes the relationship between art and science,” Ben-Ary said.

Gamblen and Ben-Ary’s objective is to investigate the aesthetic outcome of living neurons interfacing with a physical body. The concept uses the electric signals produced by neurons, which are subsequently led to a mechanical arm equipped with a pen. In turn, a digital camera records what the arm draws and feeds a signal back to the neurons.

The goldfish brain cells and electronic equipment helped them name this first installment of MEART “Fish and Chips.” The prototype and full-scale model were presented in 2001 at the Ars Electronica exhibition in Linz, Austria.

“Knowing what the title and the scholarship pageant stands for, I’m deeply honored…”

Bao Ngoc To
Miss Asian Atl. Scholar

The Chinese Student Association (CSA) honored Bao Ngoc To, a Tech student, $4,000 and named her Miss Asian Atlanta Scholar at its third scholarship pageant Saturday evening, in front of a full house at the Ferst Center for the Arts.

The organization also presented awards to Georgia State student Arti Angel Sharma, a third-year Biomedical Engineering Major and a Tech student Kathy Pham, a first-year Asian female who encompasses the beauty pageant competition and an artist mother, Porter has numerous achievements as a scientist and a strong connection to art. His website has both professional and artistic pages presenting his work in both areas.

“My maternal influence certainly gave me an appreciation for art in all forms,” Potter said.

Thanks to the collaboration with Potter, Ph.D. student Douglas Bakkum and a small army of undergraduate assistants, the project has received an invigorating scientific infusion. “The technology is totally different; it helps us put more order and rules on what we are studying,” Ben-Ary said. “Doug helped us get the arm to reflect what is happening with the neurons in the dish and to be more accurate [in drawing].”

“The idea is that neurons make associations about what goes on in their environment. We want to give them a body and see what associations are made, what they learn and how they do it,” Bakkum said. “We constantly record the voltage output from the neuron cultures and see how they change with different inputs.”

“We use (MEART).” The visualization tool to look at changes in neural activity that may be related to learning by an object, may help us understand how we learn and how we remember or forget,” Potter said.

Currently MEART is considered a geographical detached bio-cybernetic project. While the neuron culture and

FRESHMAN SOFTBALL SENSATION
Read about Whitney Haller, a freshman softball pitcher that can hit as well as she throws. The rookie shares stories of her success. Page 28

VAMPIRE FILM DEBUTS
The eternal battle between light and dark continues in the thriller Nightwatch as the forces of good combat vampires. Page 17

Cybernetic artist gives cut new meaning

A microscopic zoom provides a close-up look at the neurons of MEA, the neuron culture comprising the artistic brain of the Multi-Electrode Array ART project. Signals from the neurons, located at Tech, are transmitted to Australia, where they drive a set of robotic arms in creating artwork.

By Hernando Jimenez
Contributing Writer

The Chinese Student Association (CSA) honored Bao Ngoc To, a Tech student, $4,000 and named her Miss Asian Atlanta Scholar at its third scholarship pageant Saturday evening, in front of a full house at the Ferst Center for the Arts.

The organization also presented awards to Georgia State student Arti Angel Sharma, a third-year Biomedical Engineering Major and a Tech student Kathy Pham, a third-year Asian female who encompasses the beauty pageant competition and an artist mother, Porter has numerous achievements as a scientist and a strong connection to art. His website has both professional and artistic pages presenting his work in both areas.

“My maternal influence certainly gave me an appreciation for art in all forms,” Potter said.

Thanks to the collaboration with Potter, Ph.D. student Douglas Bakkum and a small army of undergraduate assistants, the project has received an invigorating scientific infusion. “The technology is totally different; it helps us put more order and rules on what we are studying,” Ben-Ary said. “Doug helped us get the arm to reflect what is happening with the neurons in the dish and to be more accurate [in drawing].”

“The idea is that neurons make associations about what goes on in their environment. We want to give them a body and see what associations are made, what they learn and how they do it,” Bakkum said. “We constantly record the voltage output from the neuron cultures and see how they change with different inputs.”

“We use (MEART).” The visualization tool to look at changes in neural activity that may be related to learning by an object, may help us understand how we learn and how we remember or forget,” Potter said.

Currently MEART is considered a geographical detached bio-cybernetic project. While the neuron culture and

FRESHMAN SOFTBALL SENSATION
Read about Whitney Haller, a freshman softball pitcher that can hit as well as she throws. The rookie shares stories of her success. Page 28

VAMPIRE FILM DEBUTS
The eternal battle between light and dark continues in the thriller Nightwatch as the forces of good combat vampires. Page 17

Cybernetic artist gives cut new meaning

A microscopic zoom provides a close-up look at the neurons of MEA, the neuron culture comprising the artistic brain of the Multi-Electrode Array ART project. Signals from the neurons, located at Tech, are transmitted to Australia, where they drive a set of robotic arms in creating artwork.

By Hernando Jimenez
Contributing Writer

The Chinese Student Association (CSA) honored Bao Ngoc To, a Tech student, $4,000 and named her Miss Asian Atlanta Scholar at its third scholarship pageant Saturday evening, in front of a full house at the Ferst Center for the Arts.

The organization also presented awards to Georgia State student Arti Angel Sharma, a third-year Biomedical Engineering Major and a Tech student Kathy Pham, a third-year Asian female who encompasses the beauty pageant competition and an artist mother, Porter has numerous achievements as a scientist and a strong connection to art. His website has both professional and artistic pages presenting his work in both areas.

“My maternal influence certainly gave me an appreciation for art in all forms,” Potter said.

Thanks to the collaboration with Potter, Ph.D. student Douglas Bakkum and a small army of undergraduate assistants, the project has received an invigorating scientific infusion. “The technology is totally different; it helps us put more order and rules on what we are studying,” Ben-Ary said. “Doug helped us get the arm to reflect what is happening with the neurons in the dish and to be more accurate [in drawing].”

“The idea is that neurons make associations about what goes on in their environment. We want to give them a body and see what associations are made, what they learn and how they do it,” Bakkum said. “We constantly record the voltage output from the neuron cultures and see how they change with different inputs.”

“We use (MEART).” The visualization tool to look at changes in neural activity that may be related to learning by an object, may help us understand how we learn and how we remember or forget,” Potter said.

Currently MEART is considered a geographical detached bio-cybernetic project. While the neuron culture and

FRESHMAN SOFTBALL SENSATION
Read about Whitney Haller, a freshman softball pitcher that can hit as well as she throws. The rookie shares stories of her success. Page 28

VAMPIRE FILM DEBUTS
The eternal battle between light and dark continues in the thriller Nightwatch as the forces of good combat vampires. Page 17

Cybernetic artist gives cut new meaning

A microscopic zoom provides a close-up look at the neurons of MEA, the neuron culture comprising the artistic brain of the Multi-Electrode Array ART project. Signals from the neurons, located at Tech, are transmitted to Australia, where they drive a set of robotic arms in creating artwork.

By Hernando Jimenez
Contributing Writer

The Chinese Student Association (CSA) honored Bao Ngoc To, a Tech student, $4,000 and named her Miss Asian Atlanta Scholar at its third scholarship pageant Saturday evening, in front of a full house at the Ferst Center for the Arts.

The organization also presented awards to Georgia State student Arti Angel Sharma, a third-year Biomedical Engineering Major and a Tech student Kathy Pham, a third-year Asian female who encompasses the beauty pageant competition and an artist mother, Porter has numerous achievements as a scientist and a strong connection to art. His website has both professional and artistic pages presenting his work in both areas.

“My maternal influence certainly gave me an appreciation for art in all forms,” Potter said.

Thanks to the collaboration with Potter, Ph.D. student Douglas Bakkum and a small army of undergraduate assistants, the project has received an invigorating scientific infusion. “The technology is totally different; it helps us put more order and rules on what we are studying,” Ben-Ary said. “Doug helped us get the arm to reflect what is happening with the neurons in the dish and to be more accurate [in drawing].”

“The idea is that neurons make associations about what goes on in their environment. We want to give them a body and see what associations are made, what they learn and how they do it,” Bakkum said. “We constantly record the voltage output from the neuron cultures and see how they change with different inputs.”

“We use (MEART).” The visualization tool to look at changes in neural activity that may be related to learning by an object, may help us understand how we learn and how we remember or forget,” Potter said.

Currently MEART is considered a geographical detached bio-cybernetic project. While the neuron culture and
Ryan Haynes, a senior after only three years in biomedical engineering, is Tech’s latest Marshall scholar. Haynes has sought to integrate research and coursework in his learning experience. It is just this sort of dedication to excellence—not only in academics, but in all aspects of his life at school—that helped Haynes become Tech’s seventh recipient of the prestigious Marshall Scholarship last November.

Perhaps it is fitting that Haynes found one of his earliest influences at Tech in his freshman Calculus II TA, Potter’s Laboratory of Neuroengineering his second semester at Tech. Last year, he continued his extracurricular education with Professor Steve Potter’s Laboratory of Neuroradiology at Children’s Healthcare of Atlanta.

Haynes began on experience...you’re getting hands on experience in the field, Haynes began his research in Assistant Professor Steve Potter’s Laboratory of Neuroradiology at Children’s Healthcare of Atlanta.

“Research gives you the place for all that stuff that you’re learning,” Haynes said. “It completely changes your educational experience, whereas you’re not just learning in a vacuum, which is essentially what you’re doing if you’re just doing class work. Once you’ve been in research, you can say, ‘This is how I apply it to the real world.’”

“Research completely changes your educational experience...you’re not just learning in a vacuum.”

Ryan Haynes Marshall Scholar

“It’ll definitely change your whole life,” Haynes said. “It’ll definitely change your whole experience at Tech,” he said.

Haynes’s curiosity and tenacity in his research has paid off. Next fall, he will use his scholarship to attend the University of Cambridge and pursue a master’s degree in nanotechnology enterprises and bio-imaging sciences at Imperial College London.

He attributes his interest in nanotechnology to the importance of its role in medicine in the future and his perfectionist personality.

Ryan Haynes, a senior after only three years in biomedical engineering, is Tech’s latest Marshall scholar. Haynes has sought to integrate research and coursework in his learning experience.

By Jane Wong
Contributing Writer

“Research gives you the place for all that stuff that you’re learning,” Haynes said. “It completely changes your educational experience, whereas you’re not just learning in a vacuum, which is essentially what you’re doing if you’re just doing class work. Once you’ve been in research, you can say, ‘This is how I apply it to the real world.’”

“It’ll definitely change your whole experience at Tech,” he said.

Haynes’s curiosity and tenacity in his research has paid off. Next fall, he will use his scholarship to attend the University of Cambridge and pursue a master’s degree in nanotechnology enterprises and bio-imaging sciences at Imperial College London.

He attributes his interest in nanotechnology to the importance of its role in medicine in the future and his perfectionist personality.

Ryan Haynes, a senior after only three years in biomedical engineering, is Tech’s latest Marshall scholar. Haynes has sought to integrate research and coursework in his learning experience.

By Jane Wong
Contributing Writer

“Research gives you the place for all that stuff that you’re learning,” Haynes said. “It completely changes your educational experience, whereas you’re not just learning in a vacuum, which is essentially what you’re doing if you’re just doing class work. Once you’ve been in research, you can say, ‘This is how I apply it to the real world.’”

“It’ll definitely change your whole experience at Tech,” he said.

Haynes’s curiosity and tenacity in his research has paid off. Next fall, he will use his scholarship to attend the University of Cambridge and pursue a master’s degree in nanotechnology enterprises and bio-imaging sciences at Imperial College London.

He attributes his interest in nanotechnology to the importance of its role in medicine in the future and his perfectionist personality.
The fourth floor of the Electrical and Computer Engineering (ECE) building may not sound like the most interesting place in the world, but if you follow the sound of rambling robots, sporadic explosions and tinkering engineers, you’ll soon find yourself in a place of excitement, innovation and engineering at its finest.

The Georgia Tech IEEE (Institute of Electrical and Electronic Engineers) Robotics Team proudly calls this place home. Each year, a diverse team of electrical, mechanical and computer engineers from Tech assembles a robot for the IEEE Sensor and Ad Hoc Communications and Networks (SECON) Robot Competition. The challenge is difficult every year but has always remained extremely tough.

“This year we have to build a robot that has the capability to deliver packages to three different sites from a distribution center,” said Simon Chen, IEEE Robotics Team captain. “Think of this as the future of UPS. This may not sound too hard at first, but the trick is that the robot has to be totally autonomous.”

“No interactions are allowed after the first button is pressed. We have to use laser scanners and bar code readers to navigate and identify items,” he said. “Because it is a timed competition, computer codes that prioritize the delivery system is a must.”

To solve these problems, the team was forced to create some clever solutions. In particular, they recently designed a system that has the capability to deliver multiple packages at once.

“We prefer to keep the details secret because of the competition. The general idea is that our robot can store packages at specific sites and keep them in memory.” Chen said. The team is currently working hard trying to put the finishing touches on the system.

The team was formed early in fall of 2005, but the real work began in January 2006. Each team member contributes an average of eight hours per week to the project. However, team members often work late into the night to get a particular problem solved.

“The record holder once worked all the way to four in the morning,” Chen said.

Above the team mainly consists of electrical engineers, a wide variety of students from other engineering disciplines such as mechanical engineering and computer science also participate. This presents a unique learning experience for all members involved.

“This gives you a chance to learn multiple disciplinary skills that you don’t get to learn in a classroom,”

said Tyler Randolph, a Mechanical Engineering major. “I didn’t have the chance to work with electrical engineers before. This not only taught me where my skills apply, but also when. We use mechanical solutions when electrical solutions make sense and electrical solutions when mechanical solutions make sense. It’s been a great learning experience.”

Being on the team also helps the members academically. “The experience is very hands-on,” Chen said. “This is really what engineering is all about. Sometimes you lose sight of that because of all your classes. It really makes you more attentive to schoolwork once you see how everything is applied in real life.”

Furthermore, nearly half of the members are doing this as their senior design project. “This is a great project for senior design—you get your own lab, a generous budget and access to a very supportive faculty,” Chen said.

Mechanical Engineering student Tyler Randolph works on the Institute of Electrical and Electronic Engineers (IEEE) Robotics Team’s robot before this year’s competition, which will take place in April.

See Robot, page 14
Haynes from page 12

it’s not really a targeted solution,” Haynes said.

Haynes is grateful for the broad education that the Biomedical Engineering major has provided him so far.

“I’ll notice it at the meetings [at the hospital]. There’ll be a psychologist, radiologist, mathematician…. I’m pretty much the only person there that can talk a little bit of all the languages. The only drawback is, as a biomedical engineer, I don’t feel like I’m an expert in one field, and that’s why I feel like I need a master’s degree—to specialize,” Haynes said.

“But going into research, it’s more and more today that you have to have so many different knowledge bases to bring something in to create a research solution that I think it will be advantageous when I get to the end of what I’m doing,” Haynes said. “I think, eventually, it’ll pay off.”

Haynes’s research for the past few years in Potter’s lab has been analyzing the responses of cultures of neurons when they are exposed to chemicals such as dopamine or glutamate. It is funded by the National Institute of Drug Abuse because of the relationship thought to exist between drug addiction and the changes in dopamine pathways in the brain.

At the hospital, Haynes works with software that measures cortical arrophy in the regions of the brain of children that experience epilepsy. Interestingly enough, Haynes said, there is a connection between the two projects.

“The quieting that we do with the electrical stimulation in the activity in the [culture] dishes—a hypothesis—is that it can be applied to quieting epilepsy. So the idea is getting basic science from the laboratory into the clinical setting. And I think the best way to do that is what’s called translational research…using a business avenue to take basic science and either commercialize it or pull it into a clinical setting. Haynes hopes to attain the busines understanding through the master’s degree of nanotechnology enterprises, with a course load combination of both physics and business classes.

After his two years in England, Haynes plans to attend medical school and enter the field of radiology.

Haynes is not just known on campus for his research work. First and second year students may know him as a TA of Calculus II (seem familiar?), where he will soon be using a software program he wrote to help teach linear algebra. Reminiscent of a high school project where he developed a distance-learning education program, Haynes was inspired to write, from scratch, a new program; this time aiding independent-learning students learn Calculus II. He plans to use this program this semester.

People often ask Haynes why he didn’t major in Computer Science, since programming seems to come naturally to him. He usually says he just wanted to try to go into a different field. This does not mean he has entirely abandoned the world of electronics.

“The robot thing was the thing that attracted me [to Potter’s lab] to begin with…. I was always interested in artificial intelligence and how the brain works,” Haynes said.

Robot from page 13

This does not mean that only students or upperclassmen are welcome to the group; the IEEE Robotics Team actively seeks out new freshman members. Graduate student advisor Ryan Westera believes that having freshmen on the team is beneficial. “Some students come in as a freshmen and can get their hands on stuff that they’ll only see in a senior design class…. They’ll have the benefit of staying for several years. This really helps the team in terms of accumulated experience and continuity,” he said.

Despite the fact that the team has already been working on the robot for two and a half months, they are still recruiting for this year and the next. The meetings are held every Monday at the Van Leer building in Room 218. Interested undergraduates may attend.

The team’s first competition will be held April 1.
The Graduate Student Government Invites ALL to the

2nd Annual Graduate Research Symposium

Wednesday
March 8, 2006
Student Center Ballroom
9:30 am – 6:00 pm
Awards reception 4:30pm – 6:00pm

Ever wonder what research topics are being studied by fellow graduate students throughout the various colleges a GATech?

Ever wonder what graduate school research is all about?

Come see poster presentations which will be on display throughout the day, or drop by and listen to the many oral presentations.

For schedule of the presentations or further info visit

http://sga.gatech.edu/symposium

Georgia Tech Alumni Association

Graduate Student Government Association

---

Can You Figure Out Where on Campus This Picture Was Taken?

Email focus@technique.gatech.edu if you think you know the answer; check to see if you won in a later issue.

Answer to previous Tech Up Close:
Sundial outside Student Center

Last week’s winner:
Nobody

---

Email focus@technique.gatech.edu if you think you know the answer; check to see if you won in a later issue.

Answer to previous Tech Up Close:
Sundial outside Student Center

Last week’s winner:
Nobody

---

By Ben Reporting / STUDENT PUBLICATIONS

---

The headlines (and not the brief headlines) have been set so that they will line up on the horizontal grid (see it with ctrl+alt+'). Leave enough space above so that the ascenders (b,d,l) do not overlap with the story text above. The Nomal Large and Impact headlines need 4 lines, the normal medium needs 3. Leave one line below before you start the story.

---

Don't forget: posed shots are photo illustrations!
Art from page 11

interface hardware (the brains of MEART) are located at Tech, the mechanical arm and digital camera are with Gamblen and Ben-Ary in Perth, Australia. This makes communication a critical issue.

“Perth and Atlanta are almost on opposite points of the planet; there is a 14-hour time difference” Ben-Ary said. “Still we manage to run experiments in real time.”

“We do use a lot of instant messaging though,” Bakkum said.

“Because of this separation, the weeks just prior and during an exhibit are crucial. Having Doug meet us in all of the exhibits has been essential,” Gamblen said. “It gets pretty intense because it is the only time we are physically together.”

Currently, though, Gamblen and Ben-Ary are in a three month residency at Tech.

When the team is apart, the time zone difference isn’t all bad, despite the communications challenge. “One time an exhibit in Melbourne opened at 4 a.m. Eastern time,” Bakkum said. “We felt bad for all the undergrads up at those hours so we bought a coach for them on eBay from Australia with MEART sponsorship and had it delivered to the lab.”

Machine or Living Being?

One could call MEART’s a Cyborg of sorts, though the term could be misleading if it included images of the Terminator or other science fiction.

Potter calls MEART “semi-living.” It contains living components in its brain, which is the culture of neurons and glia. The rest of its structure is built out by nonliving robotic components.

“MEART is a semi-living artist that can produce art and can die,” Gamblen said in summary. “What exactly does ‘semi-living’ mean, however? The jury may still be out on that one.”

“It is a difficult subject, trying to define whether MEART is a living being or not. There is no cut and clear answer to that question, you can get a whole prism of answers depending on who you ask,” Bakkum said.

“SymbioticA works quite closely with an ethical board. We have had to learn and become equipped to deal with some of our research requests,” Gamblen said.

“At Tech” any researcher who uses an animal tissue must create a detailed protocol, reviewed annually, for the ethical and humane treatment of any animals involved,” Potter said. “This is approved by the Institute Animal Care and Use Committee, which includes veterinarians and animal lovers from the community.”

For MEART, death is not necessarily the end of the road either.

“One time in an exhibit we had the computer screen projected on a wall,” Ben-Ary said. “The arm suddenly stopped moving. We sent an IM to Atlanta wondering if something was wrong. Seconds later they replied saying the culture [of neurons] had died. What was a normal event at the lab seemed much more dramatic to people looking at the projection on the wall.”

The research efforts put into MEART raise further questions beyond the definition of “living” for both artists and scientists.

“We are interested in the gap between the philosophical and scientific definition of art,” Gamblen said. “The artist is MEART, not Doug, Phil or Guy.”

“Don’t just go to your studio and say ‘I am going to make a painting.’ Instead you engage in a process. We want to explore what this process is,” Gamblen said.

Drawing Conclusions

The outcomes of the MEART project are certainly intriguing for scientists and artists alike. “We want to gain scientific insights into a culture of neurons, successfully record and identify their behavior,” Bakkum said.

“This line of work can be directly applied to the study and design of neuro-prosthetics. It can be a mechanical arm connected to the brain, cochlear implants for the hearing impaired or visual prosthetics for the blind,” Potter said.

“I am just delighted that we have created an art form that gets a lot of artists, scientists and laypeople thinking about big issues on both the art and science sides,” Potter said.

For more information, as well as photographs of MEART and its pieces, visit http://www.fishandchips.uwa.edu.au.

Asia from page 11

25 percent [of their scores], which included their GPAs, the essays they wrote, community service they’ve done and extracurricular activities they’ve done.”

“We were looking for an extremely well rounded woman. Just because she had good grades didn’t mean she was going to win, interview skills, poise, and grace also counted. She had to be good at everything and able to handle pressure,” Ngo said.

Last year the CSA was unable to host a Miss Asian Atlanta Scholarship Pageant due to funding issues.

After this year’s competition, CSA hopes it will be a yearly event supported by many different organizations including SGA and corporate sponsors such as Coca Cola and Georgia Power.

“Last year we wanted to revitalize the pageant and we hope to make [the pageant] an annual tradition…”

Charles Ngo
Director, Miss Asian Atl.

“This year we wanted to revitalize the pageant and we hope to make this an annual tradition,” Ngo said, “and we hope that it gets bigger each year as we get more sponsors and support from the community.”

I’m honored to represent Georgia Tech and the Vietnamese-American community as the 2006-2007 Miss Asian Atlanta Scholar. I am very proud and hope to continue to live up to the honor bestowed upon me,” To said.

“As the only person who saw each contestant go through every stage of the process I truly feel that the winners of the pageant were the most deserving,” said Charles Ngo, vice president of CSA and the pageant’s director.

Pham and Iris Law (University of Georgia), Nancy Khan (Emory University) and Aecyn Barlaan (Tech) also won $250 for receiving titles in other categories.

Elizabeth Thai, Tiffany Curtiss and Bao Gnoc To anxiously await the announcement of the winner of the Miss Asian Atlanta Pageant.

FOCUS

Technique: Writers wanted.

It doesn’t matter who you are or what kind of life you’ve built.

**AMERICA’S WILDERNESS**

—Maya Lin, Artist

From skyscraping mountains towering from above, to prehistoric land forms stretching far and wide, no human structure can ever match the natural majesty of America’s wilderness. That’s why it’s so very important we protect it. Join us in honoring America’s commitment to protecting our country’s special wild places by helping us celebrate the 40th anniversary of the Wilderness Act.

Together we are preserving the legacy of the wild generations to come. —Maya Lin, Artist

Celebrate 40 years of protecting AMERICA’S WILDERNESS www.leaveitwild.org

**Brand new student housing**

Bring this ad in to register for FREE RENT!

**FURNISHED LOFT INCLUDES WASHER/DRYER**

FULL SIZE BED 27” TELEVISION FREE EXPANDED BASIC CABLE FREE SHUTTLE TO GA TECH, GSU, AUC, AND MARTA

Individually lease your own fully furnished private bedroom and private bath!

**Metropointe Lofts**

A NEW GENERATION OF STUDENT LOFT LIVING

Located at 800 West Marietta Street

Call 404.487.1000

www.metropointelofts.com

HOT SALE ENDS MARCH 31ST!