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New ISPs (local)

"From Desktop Printing to 3D Desktop Manufacturing: How Nanotechnology is Transforming Ottawa's IT Horizon"

Wednesday, November 19, 2003

\* Postponed \*

Will be Rescheduled  
for Spring 2004

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## Message from the President

This month's feature article serves as a reminder that computer technology has entered a new phase in its evolution. Perhaps the most exciting and certainly the most promising in terms of benefits to humanity.

In the 60's, computer technology or IT as it came to be known, was oriented almost exclusively at solving engineering, administrative and financial problems. Benefits were realized in terms of time, labour and cost savings but the price was high and those benefits were offered to limited segments of the population.

With time, IT evolved to cater more and more to all levels of organization employees be they executives, managers or workers in the corporate, government and academic worlds. In addition, with the advent of the PC and the Internet, individuals and small businesses started using IT on a larger scale for a relatively small price.

Today, IT is prevalent in all segments of society and has become an "expected" tool for the younger, and not so young, generations of modern workers. The same way the telephone was an "expected" tool for most workers entering the work force a few decades ago. IT benefits today, accrue to almost everybody, whether it is in the form of time or money savings.

I believe that the next challenge is to start using IT for the more altruistic benefits like quality of life, protection of life, protection of health and the broader dissemination of educational services. This is where the real benefits of IT for humanity will be realized.

IT providers have to focus on bringing down the cost of IT even further and creating new functionality that will allow us to realize those new benefits. Just think of what other technologies, such as the telephone and the car, could accomplish two decades ago compared to today. We have to push for the same rate, or an even greater rate, of evolution for IT since the world keeps moving at an ever faster pace.

Come to think of it, IT needs to evolve to the point where it can take care of the issues linked to the increased pace of living so we human beings can slow down, enjoy life and let the technology work for us.

Claude Gélinas, I.S.P.  
President

# Message from the Program Chair



## Program Update - November 2003

Our September kick-off event was a tremendous success, despite the "Black Out" that affected our city and businesses in late August. We had breakfast at the Congress Centre and listened to a great presentation by Gartner analyst Elroy Jopling, and an expert panel of local CIOs and CTOs; Terry Cairns, MDS Inc.; Alex Volkoff, CIDA; and, Peter Bruce, National Library and Archives. The presentation and panel discussion focused on Gartner's predictions for IT Management through to 2007. The panel was very passionate about the subject, from Virtual Collaboration to Process Maturity, and provided real world examples as well as their views about Gartner's predictions. It was a perfect start to the 2003-2004 CIPS Program year.

We have had to postpone our next event that was scheduled for Wednesday, November 19 at the Ottawa Congress Centre. Please look for this event in the Spring when our guest speaker, Douglas Mulhall, will take us from Desktop Printing to 3D Desktop Manufacturing as he illustrates to us how Nanotechnology is transforming Ottawa's IT horizon. Douglas will help us to better understand what the difference is between 'nanotechnology' and 'molecular nanotechnology', where the bubble-type hype ends and reality begins, and what this 'Desktop Manufacturing' is that is replacing factories by delivering digital goods via the Internet. For more information visit <http://local.cips.ca/ottawa> or call the CIPS Hotline at 728-7944.

It is our commitment and goal, through the CIPS Ottawa Program, to meet the information needs of both technical and business professionals in the National Capital Region. We hope you find value in all our 2003-2004 events.

Michele Lajeunesse  
Program Chair, CIPS Ottawa

## CIPS Ottawa 2003-2004 Program Overview

NOTE: The information below is subject to change, but provides a view of the great events you can expect.

DATE	TYPE OF EVENT	DETAILS
Wed. Nov 19 <i>* Postponed - To be Rescheduled for Spring 2004 *</i>	Breakfast & Keynote	Topic: From Desktop Printing to 3D Desktop Manufacturing
Thurs. Jan. 15	Business Seminar	Topic: Real Business Intelligence at Work
Mon. Mar. 8	Women In IT	Presentations at local high schools
Thurs. Mar. 18	Technical Seminar	Evening seminar
Thurs. Apr. 15	Breakfast & Keynote	Federal Government CIO Update
Thurs. May 12	Business Seminar	Aboriginal Procurement
Thurs. June 10	Breakfast Event	Joint CIPS/DPI event
Thurs. June 17	Golf Tournament and AGM	Emerald Links

Please visit <http://local.cips.ca/ottawa> for full event details.

# CIPS Ottawa 2003-2004 Patrons

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# Mashing Moore's Law *by Douglas Mulhall*

Moore's Law has just been rendered obsolete, say some inventors.

More than a dozen technologies are being investigated for replacing silicon in computing, but a few have exploded onto the scene recently and may upend the appletart.

An extraordinary development was announced on October 14 by Israeli company Lenslet, who developed and are manufacturing an optical processor that performs eight TRILLION operations per second--about a thousand times faster than the most advanced electronic processor available today. In one swoop this effectively demolishes Moore's Law, accelerating the rate of doubling for information processing to a blinding speed.

There are drawbacks. The optical method is analog and prone to error. But here's the magic: Lenslet claims that their processing software cuts this to "negligible" for most critical operations. This is an elegant example of a hardware/software interface that enables a technology leap.

Another issue is size: the processor is much larger than a conventional chip. Lenslet says that will be solved in a few years, but it doesn't matter for now because many apps are in larger computers that don't have to fit on your lap. Heat generation has been slashed while energy efficiency and speed are enhanced exponentially.

Still another astonishing development occurred this September: Diamonds so cheap that they may replace silicon.

Two American companies using different technologies--one from Russia--developed artificial diamonds that are hard to distinguish from the real thing and slash the cost to where diamonds can compete with silicon. Diamonds conduct current well and tolerate high heat, making speeds a hundred times that of present chips feasible.

How do the technologies work? Go to these websites and see: Optical processing is at [www.lenslet.com](http://www.lenslet.com) and cheap diamonds are at [www.gemesis.com/home.htm](http://www.gemesis.com/home.htm) and [www.apollodiamond.com/gemstones.html](http://www.apollodiamond.com/gemstones.html)

What are the practical implications?

One is in disease detection. Scanning of the human body for everything from cancer to heart disease has already replaced many invasive surgical methods, but the technology is still inaccurate when it comes to detecting early signs and soft growths. Software-enhanced rapid data processing may solve this.

Why is it important now? A new discovery has shown that heart and other diseases leave a 'calcium trail' that is treatable. Enhanced imaging is a core part of detection and treatment. Millions could benefit. See [www.calcify.com](http://www.calcify.com) for more information on the calcium story.

On the military side, experts close to Lenslet say that the effects on warfare will be profound. Superior resolution makes super-accurate detection and targeting possible. This will also blow open the video field, allowing compression of many more signals in the same information pipe.

Military apps also have a kinder gentler civilian side. Voice and facial recognition could leap from being clunky and "99 percent accurate" (which leaves room for a lot of error) to near-perfect in a fraction of the time, without the onerous "training" that most software requires now.

Security may also become less complex with cheap, virtually instant handprint and eye recognition to keep intruders out of your records. This again is a big opening for software developers.

Finally, the advance to cheap super-fast computing will accelerate the development of nanoscale technologies that alter not just what we do, but also what we are. That's what I'll talk about when I address CIPS in the spring of 2004. Stay tuned.

Meanwhile, companies such as Lenslet are seeking partners in many software areas, some of which Ottawa businesses excel at, so contact them.

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Article based on Douglas Mulhall's book "Our Molecular Future" [www.ourmolecularfuture.com](http://www.ourmolecularfuture.com) and a companion book 'Has Heart Disease Been Cured?'

## CIPS OTTAWA I.S.P. Weekend Camp



Greg Lane CIPS National President and Kewal Dhariwal ICCP Executive Director, descended on Ottawa the weekend of October 17, 18 and 19th for the first annual CIPS Ottawa ISP Camp.

The objective of the weekend was to prepare individuals to write the ICCP exams. Obtaining your CCP designation is an alternate route to gaining your I.S.P.

The Friday night information session was attended by an enthusiastic group of 20 plus individuals. Greg provided an overview of the benefits of professional certification in general and the I.S.P. specifically. Kewal joined Greg to profile the Institute for Certification of Computer Professionals (ICCP) and to let us know what to expect on the weekend.

Saturday was all about preparing to write the ICCP exams. We began with a review of the exam format. To obtain your CCP designation you must write one core exam and two specialty exams. After the review we had an opportunity to 'pressure check' with several sample exams. We then spent several hours reviewing key subject areas with Kewal taking questions and preparing us for the Sunday exam session! Everybody who took examinations passed them successfully. A very strong group of IT Professionals!

The weekend was a great success and special thanks go out to:

- " Barry Brock Director IT services at Algonquin College. Barry not only provided a state-of-the-art classroom, he also made sure we were having fun throughout the weekend;
- " Andrew Ly and allstream for sponsoring snacks and lunch for the event; and,
- " Jayne Torr, Candace Dressler and the CIPS Ottawa I.S.P. committee for organizing the weekend.

Based on interest, we look forward to running additional courses within the next 4 to 6 months. Hope to see you there!

## Where are they Now?

"HEY CIPS MEMBERS..... WHERE ARE YOU? WHAT HAVE YOU BEEN UP TO LATELY?" Have you recently started a new job? Do you know of a CIPS colleague who's moved away from or to the Ottawa area? Want to let the CIPS community know what you've been up to lately -- a new exciting project, hunting for work, a fun vacation?

If you answered "Yes" to any of the above questions (or similar inquiries), WE WANT TO HEAR FROM YOU!!

Please send your updates to [associations@mco.ca](mailto:associations@mco.ca) with the subject line "CIPS MEMBER UPDATE". We'll collect the updates we receive and publish them in our upcoming newsletters. Here's your chance to be heard... tell us all about it!

## Andy Shaw - What Have You Been Up to Lately?

Andy Shaw, I.S.P. and former Management / IT Consultant, packed in the consulting life last summer to take up residence with Canadian Blood Services (CBS). As the Director, Enterprise Business Systems, Andy and his team are responsible for all CBS applications, with the exception of SAP. "It's a great company with so many dedicated people and it's a great feeling knowing that what we do means so much to so many. I encourage everyone who is able to donate blood... you never know when you or someone you know will need it!" says Andy, a lifetime blood donor himself.

# How CREDIBLE are you?

Following this years successful I.S.P. week, the CIPS Ottawa I.S.P. committee would like to acknowledge the local I.S.P. holders. The following I.S.P. holders have the designation to prove their professionalism, credibility, and high standards of practice and ethics.

Donna R. Andronik I.S.P.  
Rick Bachenskie I.S.P.  
Tim Bakos I.S.P.  
Daryl Banke I.S.P.  
Robert Berthelet I.S.P.  
Andy Blenkarn I.S.P.  
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David Collard I.S.P. (ret)  
J. Shannon Conway I.S.P.  
Marjorie Cooper I.S.P.  
Glen Drodge I.S.P.  
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Sreekaanth Isloor I.S.P.  
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Andrew McAllister I.S.P.  
Glen McKenzie I.S.P.,PMP  
Jim McLeod, I.S.P., CISSP, CCP  
Ian Mellings I.S.P.  
Allan Midgley I.S.P.  
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Douglas Naftel I.S.P. (ret)  
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Robert Pangborn I.S.P.  
James Paulin I.S.P.  
Stephen Payette I.S.P.  
Raymond Pearmain I.S.P.

Charles Pelletier I.S.P.  
Pierre Perras I.S.P.  
Harry Potter I.S.P.  
Brian Powell I.S.P.  
J Kenneth Pulfer I.S.P. (Retired)  
Lorelei Reid I.S.P.  
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Ronald Ross I.S.P.  
Bill Shannon I.S.P.  
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Arnold Simpson I.S.P.  
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William Tennant I.S.P.  
Jean Thivierge I.S.P.  
Bill Thorsteinson I.S.P.  
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Gilles Verner I.S.P.  
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