

in_c_r_o_v_e Newsletter

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'Don't **drive** the people working under you **inspire** them.'

— J Donald Walters

Latest from in_c_r_o_v_e

New initiative by in_c_r_o_v_e: "The more we distribute the more it increases" such is said of knowledge. Keeping in line with this philosophy it is our pleasure to offer our website as a platform and to invite contributions in the form of articles/write-ups from our readers to be posted for free reading. We believe our initiative will receive a warm response and you will make it a success by active participation. Short-listed articles will also be incorporated in the in_c_r_o_v_e Newsletter.

IMP: Kindly send in all your entries to info@incrove.com under the subject: 'Article Contributions'

Latest Module:

Consultative Negotiation: Negotiation skill is a very priced skill in corporate dealings. It not only makes savings for your organisation but also gets you the reputation of an impressive personality. There are many reasons why you may want to negotiate and there are several ways to approach it. Negotiation, in a business context, can be used for selling, purchasing, staff, borrowing & transactions, along with anything else that you feel are applicable for your business. This one day module is designed to give you those finer nuances that may otherwise be missed and cost you plenty

Feedback From Participants

I am waiting to come back tomorrow to implement what I have learned'

-George Charian, ABB limited.

'A great presentation which taught innovative ideas'

-Parul, ABB limited

Research project could help create computers that run on light

March 15, 2007 Physicists at the University of Bath will soon begin a research project which could be an important step towards the development of photonic computers – devices run using light rather than electronics – onto the desktop. The project involves research into attosecond technology – the ability to send out light in a continuous series of pulses that last only an attosecond, one billion-billionth of a second. The research could not only develop the important technology of photonics, but could give physicists that chance to look at the world of atomic structure very closely for the first time.

In June Dr Fetah Benabid, of the Department of Physics at Bath, will lead a team of researchers to develop a new technique which would enable them to synthesise 'waveforms' using light photons with the same accuracy as electrons are used in electronics. Waveform synthesis is the ability to control very precisely the way that electric fields vary their energy.

Ordinarily, electric fields rise and fall in energy in a regular pattern similar to the troughs and crests of waves on the ocean, but modern electronics allows a close control over the shape of the 'wave' – in effect creating waves that are square or triangular or other shapes rather than curved. It is this control of the variation of the electric field that allows electronic devices such as computers to function in the precise way needed.

< [Complete article](#) >

One should take pride in challenge & performance

By Arun Maira Chairman , B C G

Source: The Economic Times, 15th Jan,2007

TELCO (now Tata Motors) had big dreams and big plans in the 1970s. The market for trucks was booming. Waiting lists for new trucks were as long as six-to-seven years. Telco decided to expand production and build new factories near Pune. It could raise the money but it could not buy machines, equipment and dies required because imports were severely restricted and there were no suppliers yet in India. Therefore, Telco had to make the machines and dies itself. It lined up technical collaborations with European companies.

<[complete article](#)>

Electricity on National Highways and Railways (IDEA)

This innovation is by Mr. A. D Nagendrappa, Advocate, from Bangalore, related to the production of electricity on national highways through the movement of heavy vehicles. During the day, at least four-five vehicles pass by every on the national highway. So a method for production of electricity has been developed. It consists of (a) inclined plate (b) connecting rod (c) crankshaft (d) counter weight (e) free wheel (f) flywheel (g) coupling (h) generator (i) electrical storing unit. An inclined plate is hinged and fixed to a metal frame and a connecting rod is kept to the bottom of that metal plate. The other end of the connecting rod is attached to a crankshaft and this goes to the flywheel through a free wheel. A counter-weight is attached to the crankshaft before the free wheel so that the inclined plate is always in inclined position to maintain equilibrium. After this the flywheel is connected with a coupling to a DC Dynamo/Generator. This dynamo/generator is connected again through wires to the electrical storing unit to store or to convert it to AC power through a convertor. When a moving load passes over the inclined plate, the connecting rod moves in the downward direction and activates the crankshaft to rotate for a while. As a result, the dynamo/generator also rotates and electricity is produced. In the meantime, the inclined plate comes to its original position with the counter-weight through the free wheel. And it waits for the next pressing by another moving heavy vehicle. Thus, the process can continue again to rotate the generator to produce electricity, till the moving loads continue to pass on inclined plate. This electricity can be stored in the storing unit for further utilization.

Spam threat likely to continue in 07: IronPort

Source:The Economic Times, 27th Dec'07

2006 was the year when 'spam' came back into the mainstream and spam attacks are expected to surge during the next year too. IronPort Systems, a gateway security provider, in its 2007 Internet Security Trends Report, said that spam volumes surged in 2006, with the significant volume increase being driven by advanced image-based spam, which is typically 10 times larger than text spam. In turn, mail throughput more than tripled in 2006. IronPort expects this spam surge to continue in 2007, putting a strain on global email infrastructure and causing disruptions in legitimate email delivery. The report states that virus writers have shifted from the mass-mailer tactics of previous years to stealthier attacks embedded in office documents and with highly polymorphic outbreaks. Malware writers found new ways to deliver a steadily increasing array of harmful code, such as key loggers and system monitors. In addition, Internet Explorer vulnerabilities have allowed malware code to propagate undetected by the end user. Malware authors developed effective spam and phishing techniques to drive traffic to infected sites, resulting in desktop infection rates of over 50% in corporations worldwide, according to the report.

'Trends point to a single overarching theme. Spam, viruses, phishing and malware are tools used by well-organised global entities that are profiting from a variety of criminal activities including drug trafficking, fraud and identity theft,' commented Tom Gillis, senior vice president, Worldwide Marketing, IronPort Systems and author of the IronPort Report on Internet Security Threats.