

# SUPPORTING YOUNG FOOTBALLING TALENT LOCALLY



Giving something back to the local community is very important to us. So, we're delighted to be sponsoring two of Cove FC's youth teams - the U11 Pumas and the U11 Jaguars. Both teams are playing as part of the North East Hampshire Youth League, sanctioned by Hampshire FA and supporting youth football teams from clubs in Hampshire, Berkshire, Buckinghamshire and Surrey. ●



U11 Cove FC team

Lincad, a leader in the design and manufacture of bespoke batteries, chargers and power management systems.

[www.lincad.co.uk](http://www.lincad.co.uk)



Battery assembly



Production facilities

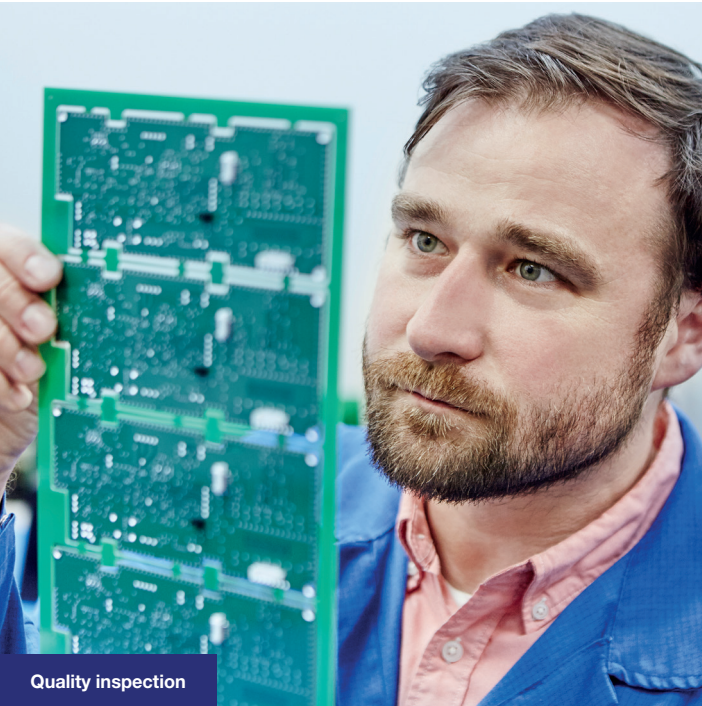
## WELCOME

A great deal has been happening since the last edition of *Contact*, the newsletter that aims to keep you in touch with the world of Lincad. In addition to new product launches, a major new contract win, and a very gratifying award, we have been expanding!

To meet the consistent growth in demand from our customers, we have doubled the size of our Head Office facilities, significantly increasing the capacity of our research, engineering and shop floor functions as well as employing a number of new staff.

Based in Surrey for more than 30 years, and operating from our present site in Ash Vale since 2009, we have long been an important local employer at the same time as being a major UK player in leading edge battery technology. As you read on, we feel sure you'll share our confidence that, on both counts, that looks set to continue. ●

**Janet Rowe and Peter Slade**  
Joint Managing Directors



Quality inspection

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# RAISING THE LINCAD PROFILE WHERE IT COUNTS

Attending key conferences and tradeshow is vitally important for keeping abreast of market developments, for meeting potential new customers and suppliers, and for raising the Lincad profile. In recent months, we have attended two such events.

## MILITARY POWER SYSTEMS

Held from 30th October to 1st November at the London Marriott Hotel, Regents Park, this conference brought together expert speakers from across Europe as well as the US and Canada and explored the latest strategies to power the frontline whilst lightening the soldier's physical load and enhancing energy efficiency.

As a company at the forefront of lithium-ion battery technology, with extensive experience of developing products in accordance with both UK Defence Standards and US Military Standards, we gained some highly valuable market insights from our attendance.

## BATTERY TECHNOLOGY SHOW

Also in October, we were at ExCel London attending the Battery Technology Show. The UK's largest and most progressive exhibition for battery technology, including electric & hybrid vehicle innovation, this event enabled us to learn from, and network with, senior executives from some of the world's most well-established electronics manufacturers and energy suppliers as well as UK Government and EU Commission representatives.●



**Meet Lincad at**



**30th Oct - 1st Nov 2018**  
London

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**Meet Lincad at the**



**23 & 24**  
October 2018 | **EXCEL**  
LONDON

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Lincad's new 3D printer

To mark International Women in Engineering Day, which takes place every year on 23 June, Janet Rowe gave her views in an interview about women in engineering. This is some of what she said:

- Q. Are there many women in your workforce?**

**A.** Yes, we have a number of women working in our Head Office and we have a few women on the shop floor, including a couple of very fine solderers who really enjoy their job and are obviously very good at it. They have the right skills for that.
- Q. Speaking from your own experience, what would you say are the greatest challenges for women working in an engineering environment?**

**A.** It has been a learning curve for me. Engineering can be complicated particularly if you've not got that background. In the case of Lincad, there are all the different chemistries, all the different ways of putting things together, and that's not something I'd been used to at all. But I've learnt a lot in the last fourteen years!
- Q. Are there always new things to learn?**

**A.** Definitely, particularly because we're at the cutting edge of technology and we've invested quite heavily in new bits of kit and new ways of doing things. The great thing is that everyone here is very helpful in getting me up to speed.
- Q. Do you think that Lincad has managed to establish an inclusive environment for women?**

**A.** We're very open to women and we are 'living wage' employers, so we pay not just the minimum national wage but more than that. We're also very flexible. We've had quite a few women who have wanted to work more flexible hours and we always try to accommodate them. In terms of career progression, to



Janet Rowe

take just one example, Kerry who is now our Stores Manager started on the shop floor. And, of course, we have Sarah, our Finance Director. Engineering is still, generally speaking, a male-dominated environment but I don't think that's true for Lincad. We don't have any barriers for women at all.

- Q. How do you think schools and colleges can encourage more female students to take STEM subjects and perhaps encourage girls to consider engineering?**

**A.** I would encourage anyone to make STEM subjects a priority for girls because they do tend to drop out as they get older simply because they don't see them as girls' subjects. And that is obviously totally wrong.
- Q. Finally, what do you think about awareness initiatives like International Women in Engineering Day?**

**A.** I think it's very important; getting more women into engineering can only be a good thing.●



# “GETTING MORE WOMEN INTO ENGINEERING CAN ONLY BE A GOOD THING”



PCB population

## NEW ARMADA SIX-CHANNEL BATTERY CONDITIONER



Peter Slade

In June, we were excited to launch the Armada Six-Channel Battery Conditioner, designed for the state of charge (SoC) management of lithium-ion and other battery types. With the ability to easily reduce the charge of lithium-ion batteries to less than 30%, the Armada provides the solution for users preparing batteries for air transport in line with IATA regulations.

Its six completely independent channels carry out the automatic charging and discharging of batteries through battery interface adaptors which are connected via locking military-standard circular connectors. The Armada is compatible with IrDA and SMBus smart batteries as well as those with no communications interface. Rugged and versatile enough to operate in a demanding military environment, the Armada is powered from a universal AC mains supply and can be mounted either on a bench or a 19" rack.

In order to provide a high degree of future proofing, the Armada is designed to accept field software upgrades from a laptop, PC or mobile app. Charge and discharge functions are controlled by the system software and are largely automatic once initiated by the user through a simple push-button interface. LED displays provide detailed status indication during operation.

As Peter Slade commented at the time: **“The Armada is the latest in a long line of innovative products developed by Lincad and promises to deliver significant logistical and operational benefits to anyone involved in the transport of lithium-ion and other batteries. The use of an Armada system prior to departure and on arrival at the final destination provides the solution for battery transport and management.”**



The new Armada



Battery transportation



IATA regulated



# LINCAD WINS CONTRACT WITH TEAM LEIDOS TO SUPPLY BATTERIES TO MOD

Also in June, we were delighted to announce that we had won a multi-million pound contract with Team Leidos to supply a wide range of primary cells and batteries for the UK Ministry of Defence.

Consisting of mainly lithium as well as some other cell chemistries, most of these products need to be suitable for mission-critical environments and therefore have to be approved to UK Defence Standards. Thanks to the investments we have made, we are able to make full use of our extensive in-house testing facilities to ensure product approval and to demonstrate continued product performance over time.

Under the terms of the contract, we are also employing our capacity to package and label supplied products for all modes of transport, ensuring full adherence with the stringent IATA regulations.

Team Leidos, led by Leidos Europe Ltd, is helping to implement the MOD's Logistic Commodities & Services Transformation (LCS[T]) programme which is designed to enhance and improve the UK's defence supply chain. Providing essential procurement, distribution and storage services for MOD materiel, Team Leidos is working to transform the supply chain by integrating a complex mixture of services, at low risk, using a modern suite of systems. ●



Lincad dispatch



Leading battery prime supplier



Batteries for the modern soldier

## LINCAD LAUNCHES NEW BATTERY POWER MANAGEMENT SYSTEM FOR THE MOST DEMANDING MILITARY ENVIRONMENTS

Since the last edition of Contact, we have also launched a new battery power management system, the BPMS Mk2.

A 120Ah lithium-ion battery with the charge management and power routing electronics needed for self-contained UPS functionality, the BPMS Mk2 is designed to support a 24V DC power supply or act as a stand-alone 24V DC power source in the most demanding military environments. At approximately 25kg, it is a soldier-portable unit which is also suitable for mounting to mobile or static platforms. Its fully metallic IP67 sealed enclosure offers excellent electromagnetic screening as well as physical protection to the internal components making the BPMS suited for use even on extreme equipment such as field artillery.

Additional features include the ability to update operating software using a PC, laptop or mobile app, as well as the ability to store periodic operational data for use in maintenance activities.

The BPMS Mk2 has been designed as a form, fit and function replacement for Lincad's original BPMS which has been in service with the UK MoD and international armed forces for more than 12 years and has been used to power Leonardo's LINAPS (Laser Inertial Artillery Pointing System). ●



Power management in the field



## LINCAD RECEIVES BRONZE AWARD IN THE ARMED FORCES COVENANT EMPLOYER RECOGNITION SCHEME

In October, we were delighted to announce that we had received a Bronze Award in the Employer Recognition Scheme run by the Armed Forces Covenant. A long-standing signatory to the Covenant, we have pledged to support members of the armed forces by opening our employment opportunities to veterans and reservists as well as their spouses and partners.

“It has always been part of our heritage to support our soldiers in the field by helping them to operate more effectively” said Janet Rowe. “Being a signatory to the Armed Forces Covenant is important to us and we’re delighted to have received this recognition of our efforts to support all current and former members of our armed forces.” ●



ARMED FORCES  
COVENANT

EMPLOYER  
RECOGNITION  
SCHEME

BRONZE AWARD

