

Issue 174 - £3.50 February 2014

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 BOARDING AND CANOE
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- SHOULDER INJURIES IN PADDLERS SURVEY
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Are you maximising the effectiveness of your coaching sessions?

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Cancer England is running a serior of LINCC Level II Core Training and intermediate Modula's across the country. To book onto any of the following courses or for further information, plans a contact for such Description at Cancer Empland (instantial description).

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This is the second article in a series of four that relate to maximising the effectiveness of your coaching sessions. The first article was intended to be thought provoking and act as a catalyst for you to play with some of the key concepts in future coaching session. If you have not read first article and find that this one does not quite make sense by itself, you can find part one in the February 2014 edition of CoDe.

Are you maximising the effectiveness of your coaching sessions?

What will be covered in the series of articles?

As coaches we aim to increase the learning, or skill acquisition, of those we are coaching by manipulating their learning environment. To help us do this we have a number of coaching tools at our disposal. These include: 1. Structuring practice (choosing the right environment, task(s), level of performance, and order of practice); 2. Conveying information; 3. giving feedback; and 4. Directing the performer's focus of attention. Over the next few editions of CoDe we will look at how the current movement (motor) learning literature suggests we can use these tools more effectively.



Structuring Practice – Part B.

This article will look at a way of electifying the ideal lead of challenge (challenge point framework - CPF) and of matching the transfer needs of a task to what is practiced during a couching session.

In Structuming Practice - Part A, we looked at how, as a coach, we can manipulate the laws of challengs by choosing the appropriate an commont, tank difficulty and the order in which our learner practice those ratio. We also looked at how it is important to simple is and contextual interference (CI) if we want to talling your injuries the order in which this are practiced to increase long term less nine and adaptability.

A quick summary of contextual interference:

- Onlertum interference can ONLY be manipulated by changing the order in which skills are practiced. The skill level of the learner and the compexity of the task will influence its effectiveness because these two factors a dd to the overall processing demands.
- High contextual interference during practice helps increase long-term learning and adaptability.
- (2) Current research suggests that you progressively increase the Cl in your practice session to keep the learner actively engaged in processing task related information.

Generalized motor programmes and schema

In Stroatume Prictice — Part A, I worlded explaining what gene alsed motor programmes (GMP) and some maker to stop you held hurting too much if you are not familiar with the concepts of motor earning. As promited, it is now time to provide an overnier world both. This may be a refresh in for some, but for those of you who get orain ache, please bear with mel.

Unfortunately we can not just out up The finan and the neural system, have a good look imine, and understand exactly what is happening when we execute a skill. It would just make a big mess. The complexity of our neural system means. that, as de from some ECG scanning to look at the general areas of the brain that are active during movement, we can only make best guesses and create theories of what is actually happening. For this series of articles I am going to begin with a well established theory to boild our discussion, that being 50 midt's Scheme Theory (1975). According to Schmidt movement is produced using a generalised motor programma (GMP) that becomes a blumprint of the invariant features of a class of movements irhythm of the movement, order of events, relative force and relative timing of muscle contractions). The asact parameters of overall force and timing are then provided by a 'schema'.

There are two types of schema – Recall and he opposition. Recall schema are used to produce movement. This type of schema contains information about the initial conditions (environment and start position of body / limbs) and movement parameters (overall force and timing). Recally tion schema pick up leedback about the sensory consequences of the

"Schmidt's Schema Theory supports the idea that when variable and novel skilled performance is needed in the future it is important to practice as many variations as possible."





movement and the movement outcome, which is then used to evaluate movement success and refine the recall schema.

To make sense of this, let us look at the following actions. A draw stroke, support stroke and a forward paddling stroke require different GMP's as they do not share the same maniant features (mythm of the movement, order of events, and relative force and relative timing of muscle contractions). They can therefore be considered as different shills. A short draw stroke, long draw stroke, draw with a different sized paddle, or different speed of water would have the same GMP but will have different parameters (schema) and may be considered as variations of the same shill.

Variability of Practice

if our performer needs to produce several different or novel variations of a skill in the future, it is important that schema are developed which contain a set of 'basic rules'. Building such schema means that it is not necessary to practise every possible variation of every tkill as a distinct and individual pattern of movement in order to be able to execute it in the future. If this were the case we would never be able to paddle n open environments or do any of the other novel and variable things that we do every day unless we has practised it beforehand. As a simple example of creating an adaptive schema imagine that you would like to be good at kicking

a ball any physically possible distance. If you practiced kicking it 1m, 1.5m and 4m it is reasonable to essume that your 'motor system' would start to learn some generalisable ball kicking 'rules' about the relationship between relative force and outcome (distance the ball goes). If it does, you should then be able to kick the ball 2m or 4.5m with a good degree of accuracy even though you have never actually learned to do so.

Schmidt's Schema Theory supports the idea that when variable and novel skilled performance is needed in the future it is important to practice as many variations as possible. These are variations of schema, not of different skills (GMP's). For schema generation it does not really

matter whether these variations are learned as blocked practice low CI) or in a high contextual interference order.

Putting it all together

flecent research has attempted to look at contextual into ference and variability of practice as part of a continuum. The idea is that "motor tasks represent different challanges for performers of different abilities" (Guadagnot and Lee 2004, p. 17). Any tack will present the individual with a contain degree of challenge. However, the learning potential from this task difficulty level will differ based on:

- O 1: The skill level of the performer
- O 2. The task complexity
- 3. The task environment

"Specificity of practice suggests that learning is most effective when the conditions (environment and movement) closely resemble those required for later performance."

As I explained in Structuring Practice— Part A, increasing the task difficulty may increase long-term learning. However, increased task of ficulty is also expected to decrease performance. Thus, an optimal challenge point exists when learning is maximized and the certiment to performance in practice is minimized.

Have a look at the table below. Assume the cross in the middle is a graph where one axis represents a continuum of contextual interference levels. (manipulating the practice order of different skills/ GMP's) and the other axis represents variability of practice (skill variations) schema). This would suggest that for novices and children constant and repetitive practice is most effective when they are mailing large errors. At the other extreme; for sitts performers who need to react quickly in changing environments, random practice structures and lots of variability would be most effective.

Any space within the table can be used. Think about students you are coaching and mark where they would be on the framework and what the implications are for how you structure their practice sessions.

Challenge Point Framework

High contextual interference			
	Elite/Experienced (reducing reaction time and recreasing adaptability)		
Constant practice Novices Children (reducing errors and creating GMP's)	Variable practice		
	ual interference		

The next article will look at way, of conveying this matter and why we must challenge the solution, VAN and learning it is solvy questioning if they are useful tools for conclusion matter.

Please let me know if you would like any further information, academic references or recommended reading. Any feedback you have about this article would be greatly appreciated. I would also like to thank Mark Tozer for his proof reading and suggestions.

Malianna Davies Coaching Workforce Manager, Canon Wales

Paddle-Ability

Intermediate Paddle-Ability Module

Following a received the uniterest of the intermediate Foolitie Ability Michael and turn only offering the opportunity to be the first people in England to attend the may style module on the 50% of March at the National Watersparia Centre. If you would like to affect this much before the set market concentration frames and and are sit-

Paddle-Ability Tutors

We are tricking for more trained in from the Foundation and Intermediate Places of the Policies of pressure intermediate places of an allowing places are allowed and allowing Policies and allowing to more information.

Stand Up Paddle Boarding and Canoe England – a paddlesport

coach's perspective

Paddlesport is an ever evolving creature with new ideas and technologies continually changing the way we, as paddlers, can access the water. Enter on the scene the activity of stand up paddle boarding (SUP).

For those who have yet to experience it. imagine a wide and long surf board and your single blade, open canno paridle length extended to above head height. Stand on the board and paddle around using the long. blade and there you have IU. Except It is never that simple. This is a puddlesport that started life in Hawaii, where it is called 'hoe he'e natur, and was used by many of the curversome looking to position themselves about the surf when photographing too surfers. Of course, the likes of Laird Samilton and crowd started to see potential to take the gear further and before you know it big waves are being surfest, flat water races are organised and people start looking at committing oom crossings!

So what's this got to do with the IICU? Well.

developing an SUP training programme.

board, it uses a paddle — thus it is readily
classed as a frue paid esport. Paddle sports already have a
not one gowerning body (NGB), with the result that Sport England
his not been went to support a new NGB for SUP. This has caused
were uponly it and up paiddle board since but this article will not
trive above the politics behind such see above, there are many for
more qualified to do so. It does mean that the BCU has had to
look at how SUP. It into their own programmes and qualifications.
This job follooms Emerging Disciplines Committee (EDC), chaired
by Gwern Burnon (of life of White Adventure Activities) and their
above focuses on the politics approach tax in by the CDC in

As a paddlesport coach and provider of some coach inducation council. I was a remaind at having a go at SUP with a learning how the remaindance of the course from the children of the course from the children of the course from the children of the childre



Grenville House DEC a perfectly located for the delivery of SUP courses, having as own slipping into she cord water and access to local cover and beaches. Several of the staff were already known SUP paddiers making it a small step to adopting SUPs when locating for something new to add to the centre's activities. We had been

out on staff puddles to work on personal skills and to share experience; I was yet to be convinced this was a discipline for me With the ouders approved, the centre had identified the kit they wanted and AALA (Adventurous Activity Licensing) #uthority) had advised on coach quality tions and train age. Enter Owen and his trailer of boards and paildles, together with experience as an extablished SUP coach and trainer holding qualifications with both the British Stand Up Paddle Association (85UPA) and Association of Surf instructors (ASI) - ready for two days of training for both permanent and Transance centre staff.

subjects such as how SUPs fit ions Foundation Safety and flescup courses. Inflatable boards were tried and compared to soft-top and good quality hard-top boards. Pacifics from £30-300 were played with; everyone found their favourite board/ paddle combination.

"Would I recommend this course." Absolutely. As coaches we are encouraged to look at our own development and to update regularly. This was a great way to do just that, whilst learning enough about a new paddlesport to be able to run simple flat water sessions."

By the end of the course all agreed they had had a great time on and off the water. Feedback revealed that most of what the coaches had wanted to experience had been addressed, and Owen was careful in take onboard suggestions for tweaking the programme. After all, this is a new module and it would be surprising if everything were perfect from the start.

Would I recommend this course? Absolutely. As coaches we are encouraged to look at our own development and to update regularly. This was a great way to do just that, whilst learning arough about a new padd export to be able to run simple that water tessions.

The Stand Up Paddle Brand From lation Module is aimed at all SCU coaches, whatever their level, who want to transfer their existing group management and coaching wills and knowledge to SUP.

Over the six hours of manne we learned some of the linchground to the 10 mile development and how the Us evolved from adapted board and paddles to equipment that is now discipline specific.

On the water we had time developing our personal technique and anjoying the types of games and according we might run with our own students. It was easy to see the links with more familiar disciplines, or perfolly open canoning. There were a lot of paddle techniques that crossed over, as well as balance skills very similar to traditional points. Dry land time allowed for considering riting to the activity and quizzing Owen about

There are those out there who question whether the BCU is the note organization to provide training for SUP. I for one think that provided those writing the programmes and delivering the training are truly SUP includes (Owen definitely his talk lik), this is a sensible way forward. SUP in a access pie its popularity increasing fast and many will look to paddle sport creation for guidance in getting on the water. The WCU network of coache is well-classified across the four nations making it easy to potential clients to the account their area. So if you are one of those likely to be approveded, get yourself involved for a day and complete the Stand Up Paddle Board CPD Foundation Vidual — hate to say it, but I am hooked!



Owen Burson in Charlet in Engine provided in the company of the management of the management of the management of the management of the company of the compa

Baz Sazeley is promoting of Baz Chaching, providing processed development or symmetric the outdoor, from a basic in archang. Coron, www.b.zccoching.co.uk

Grenville House Outdoor Education Centre provides a side since of adventuro as activities and outdoor learning resources Francis lessaconius Francis Mainte Dimensional Education (Centre)

Shoulder Injuries in Paddlers Survey

It is known that the shoulder is the most common site/location of injury in paddlers, but that is about all that is known. These injuries can be very severe with debilitating pain and extensive tissue trauma that sometimes requires surgery and may involve months of missed participation. However, there is almost no proper scientific or medical information on the specifics of shoulder injuries that occur

"We have spent some time developing a survey questionnaire on shoulder injuries in paddlers, and are now asking paddlers to fill it in so we can gather as much good quality information as possible on shoulder injuries."

For the survey to be as melul as possible we want to get as many paddlers as we can to complete it. That includes paddlers who have had shoulder injuries AND paddlers who haven't (else we get a skewed impression) and from all areas and disciplions of paddlesport.

The questionnaire is quite thorough and takes 15-25 min to complete (depending on the number of shoulder injuries you have had). www.surveymonkey.com/s/Q8FQH2K and fit it in as carefully as you can.

Dislocated Shoulder

We also have a paper based version and will be attending a range of events to raise awareness of the survey.

Stephen Callins, Jain Wilvan, Dr Hilary McDermott & Dr Jonathon Folland

Contact:

5.Colling-13@coudent (borruscus)



We have the impression that acute injuries such as shoulder districtions (see picture above) are cuite common in white-water paddlers and overvier injuries are common in flat water paddlers but how true this is, and if there are specific groups most at risk (e.g. makes/females, young/old, certain paddling disciplines or activities) is and or activities.

in paddlers.

We have speed some time developing a survey questionnaire on shoulder injuries in paddlers, and are now asking paddlers to fill it in so we can gather as much good quality information as possible on shoulder injuries. Healthy Shoulder

News round-up

COACHING REPRESENTATIVE ELECTIONS and VACANCIES

Regional Coaching Representative Elections & Vacancies

The following RCR positions are up for electron and we invite nominations:

Channel Islands Yorkshire North East

Area Coaching Representative Elections & Vacancies

The following ACR pusitions are currently up for election and we invite nominations, these are as follows:

Team North:

Durham Tyrie b. Weiii Tinexide Northweiber

Northumberland. South Yorkshire

North Yorkshine West Yorkshine

Team Central:

flutland Nottingnamshire

Lincolnshire Norfolk

Sedfordshire & Luton

Team South:

Central London Oxfordshire Contested a

Dorset West Corriwall

The North Derbyshire ACR is up for election in March and the Buckinghamshire ACR and Greater Manchester ACR are up for election in April and we invite alternative nominations.

Please get in touch! If you (or commons you know) are interested in taking on one of these roles please get in touch with Nash, he beyond line at Canon England (natas' a deviorable at Canon england orgin) who can he plantwer your questions and help amure the required nomination are received.

All applicants must also be proposed by two current RCRs/ACRs or by five other updated and active Cancer Ingland. Coaches registered within the region this self-dividuals must hold current comprehensive Cancer England membership, be up to date with their coacher ground restions and be working or living in the analythms and be working or living in the analythms at living in the cancer from the Ca

Note before some ding a yone pirous ensure you have discussed this with them and that they are willing to stone.

English Coaching Management Committee Elections

The English Coaching Service Invitanominations for the post of Chair and Vice Chair of the English Coaching Management Committee (ECML) which are up for election in March. The ICMC forms part of the English Coulding Network is a committee which sets out to ensure there is regional and discipline representation in English Couching developments. ECMC meets four times a year and as part of the role, the Chair artends Coaching Strategy Group and the Vice Chair attends English Council to represent English Coaching views. These are younteer roles and the elections will take place at the English Coathing ACM on the 22nd March 2014. The Chair will be elected for one year and the Vice Chair elected for two years. For further information and if you with to put yourself forward or cominate someone else, please contact Natasha Devonshire at Canoe England, natasita devonshires canoe-england.org.uk, by 7th March 2014.

SCA SECULIARIO

Regional Coaching Officers

RCO Central	Steve Linksted	07710 =15539	rco.contral@cancescotland.org
RCO Dumfries & Gallowey	Alex Lumsden	07920 528119	rco.dumlries@canoescotland.org
RCO Fife	lan Vosser	07917 044492	rco.fife@canoescottand.org
RCO Grampion, Speyvide and Shetland	byle Smith	07974 4±115±	rco-gramplen@/canoescotland.org
RCO Stratnelyde East	Willie Mclepd	07866 557490	rco.strathclydeeast@canoescotland.org
RCO Strathoyde West	Grant Doller		rco.strathclydewest@canescotland.org
IICO Lothians	lan Slewart	07963 750557	rcoJothians@canouscotland.org
RCO Military	Scott Simon	97533 497013	rco.military@canoescotland.org
RCO Tayside	Richie Neill	07747 108902	rco.tayside@canoescotland.org
RCO Highlands and	Steve Medinner	07775 682034	rco.highlandig@canoescotland.org

Coaching Matters Series - Scotland

Coaching Matters is a series of workshops at writes across Scotland, delivered in part terthic by some of the leading padding coachies from sportscotland National Outdoor Training Centre, Glemmore Lodge with SCA volunteer Regional Coaching Officers providing local facilitation and input. This new style of event replaces the previous regional coach update events and will offer a wife range of practical workshops suitable for all coaches.

Outline programme for 2014:

- Part 1 The Coaching Pathway, classroom based of ill attended Coaching Matters before: Observation of performance, class/practical
- Part 2 Boat based rescue skills. A chance to applicate boat based rescue skills across a range of craft. (wet & dry options)
- Part 3 Helping learners learn and couches coach. Discipline specific coaching and technical ideas where attenders choose which craft they want to work in.

Dates and Venues 2014:

- 31st May Cautte Semple
- · 1st June Low Port, Linkshgow
- . 5th July Dienmore Lodge
- . 16th Augum Monikie Country Park
- . 6th September Firbush, Loch Tay
- . 7th September Lochbre Meadows, Fife

The events are subsidised by sportscotland, Glenmore Ladge and the SCA and cost £30 per camilidate.

Booking Information

To back your place online was: SCA Self Service or ahone 0131 317 7314 to book by phone.

Most 2012 and 2013 events were sold out well in advance so early booking is recommended to avoid disappointment

Events are cover to full or Junior SCA members (including Family Adult / Family U18). Full payment is required at the time of booking.

BCU Star Award Review Update

The BCU have recently concluded a review of the Star Award provider recently continued at Full details will be published on the Home Nation Association we inlies at the beginning of April for aunch later in the year. We are a creatly conducting application

matters such as the production of re-seed Logbooks and Assessor training/ or entation courses. In the meantime the current requirements for providers still stand, these will be phased out a ongside the introduction of the updates. It is worth noting that the current option for Level 3 coaches to register as 3 Star providers will cease at the end of April 2014. From this point for ward they will need to complete the legbook process as is currently required of all other new providers.







Live the adventure

Tollymore National Outdoor Centre, Bryansford, Newcastle, Co. Down, BT33 OPZ Tel: 028 4372 2158 www.tollymore.com

Tollymore National Outdoor Centre, anatom on the edge of the Mournes. is Northern Instand's National Centre for Mountaine-sing and Canceing Activities and is funded and managed by Sport Northern Instand

OUTDOOR APPROACH

Based in Cheshire, Outdoor Approach First Aid offers a range of courses that include the Rescue Emergency Care (REC) Emergency First Aid course; which has been recognised for decades as the 'course of choice' and subsequently accepted by many UK National Governing Bodies such as the Mountain Leader Training (ML, SPA, MIA, MIC, IML and BMG) British Canoe Union (BCU) BASI and the RYA.

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