Training and the Development of the Long Sprint Events

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"You need to be half crazy to run the long sprints, and some are over qualified"

- First and foremost, the sprint event requires people who can sprint!
- Do not neglect their speed development
- Know the difference between speed development and work
- 150 seconds and 2000-3000 meters
- Strength and power with or without a Wt. room

The Energy Systems

- Where does the sprinter live?
- How long does the event last (tells you how to coach)
- What % of the race is speed and endurance?
- What is the event's "critical zone?"
- Train the race pace and the win pace
- Train the overs and unders (Knudson)

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Training the Energy Systems

- The base for sprinters is speed!!
- Why does the sprints need aerobic training? They do, but why?
- Speed is a skill and you cannot develop it by running less than skillful activities.
 - Both speed and aerobic development can be developed without running.

Knudson's Over-Unders Under-under 30m 50m 100m 200m Under 50m 100m 200m 400m R.P. 100m 200m 400m 800m Over 200m 400m 800m 1500m Over-over 400m 800m 1500m 3000m

Knudson's Over-Unders

	50.00 Boy	<u>59.00 Girl</u>
UUD	100m-11.11	100m-12.90
UD	200m-22.69	200m-26.82
RD	400m-50.00	400m-59.00
OD	800m-1:54.40	800m-2:15.00
OOD	1500m-3:53.60	1500m-4:41.41

Periodization

- How long does the season last?
 Count back from the last meet
 Speed is your base
 Use tempo and aerobic training to recover
- Incorporate strength endurance early (hills)

- Use the meets to develop the systems
 REST is not a four-latter word
 Accumulative stressors (emotional vampires)
 The best training for the 400m is?????????

Week	M	T_	W	TH	F	S	Sun	
1 4	H	E	H	M	E	H	R	(3)
13	H	E	M	С	E	H	R	(3)
12	A.H.	E	M	С	E	Н	R	(3)
• 11	H	E	M	C	E	C	R	(3)
1 0	H	E	M	C	E	H	R	(3)
9	H	E	MAE/IS	C		R	R	(3)
8	H-	M	E	C	E	H	R	(3)
<u> </u>	H	M	E	C	E	C	R	(3)
<u> </u>	H	M	E	C	E	E/R	R	(2)
5	Н	M	E	C	E	C	R	(3)
4	H	E	M	E	C	C	R	(3)
3	Н	E	M	E	E	C	R	(2)
2	Ho	E	M	E	E	C	R	(2)
• 1	H	E	E	E	C	C	R	(3)
• H =	Hard	Day						
	C		Com	petition	/Hard I	Day		
	E		Easy	Day				
	М		Medi	ium Day				
	R		Rest	Day				

Speed Development

- Unders and under-unders
- Fly runs and reps out to 60m
- "S-H" drills (Lyle)
- Short jump training
- Acceleration work and drills
- Race modeling
- Running up and downhill

Aerobic & Endurance Development

- Intensive tempo
- Extensive tempo
- Fartlek
- Short and long recoveries
- Speed endurance
- I do it, but understand why you do the aerobic training

The Nitty Gritty

- Don't fear the pain
- Quit time workouts as a reward
- Ins and outs
- **350-250** (the "widow maker")
- **150-250-350-450** reps
- Changing speed work to gut work (3x3x60m)

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Heavy Duty Booty

- 250-50-100-100-250-50-100

- Kosmin 20/20 350/250

- 40-45-50 sec. runs

Mean Improvements in Racing times

Method	100m	400m
Long steady	0.10	2.60
Fartlek	0.15	2.05
Long sprints	0.20	3.90
 Interval sprints 	0.25	3.40
Interval series	0.20	2.95
 Endurance intervals 	0.10	1.95
Pace intervals	0.30	3.60
Uphill intervals	0.30	3.85
 Interval combinations 	0.25	3.30

The 3-Legged Pig

- **5**x100
- **1**x200, 3x100
- 1x300, 2x100
- 1x350, 2x100

