## 2014 West Coast SuperClinic - Marco Ochoa Responses, Adaptations, and Peaking Using Vigil's Principles and Philosophy at Developmental Levels

## **WEST COAST** TRACK & FIELD SUPERCLINIC

**Marco Ochoa** February 1, 2014

Sacramento City College

## Developing a Successful Cross Country Program

### Define your Cross Country Program-

Goals and Purpose-

•Develop Athlete's Strong Character

. Develop a Sense of Responsibility

. Develop a Sense of Accountability •Develop and Maintain a Positive Attitude

### Building and Maintaining The Team-

Set Specific Goals for Team and Athl

•Post Pictures, Newspaper Article, Stats

•"Athlete of the Week"

•Team Dinners

•Cross Country T-Shirts

•Running Camp

### Developing a Successful Cross Country Program

### Developing Distance Runners-

•Mental Toughness and Confidence

•Motivation

•Training Plan

### Training Methods-

Terminology

Basic Physiology •Training Principles

## Periodization-

•Monocycle

•Macrocycle

•Microcycle

### Developing a Successful Cross Country Program

### Planning Practice-

•Yearly Training Plan

•Season Training Plan

•Weekly Training Plan •Daily Training Plan

Summer Training Plan

•Supplemental Training

## Aspects of Recovery-

•Recovery between intervals

•Recovery between sets of intervals

•Recovery between hard training days •Recovery required following injury or overtraining

### Developing a Successful Cross Country Program

I keep six honest serving men, They taught me all I knew; Their names are What and Why and When And How and Where and Who.

Rudyard Kipling

- 1. What should be done?
- 2. Why is it being done?
- 3. When should be done?
- 4. How is it done?
- 5. Where should it be done?
- 6. Who should do it?

### PLYOMETRIC DRILLS and **CORE EXERCISES**

### Core Workout:

Planks-

Prone, left side, right side, supine

PlanksIron CrossStretching-Hip swing from side to side
ScorpionsStretching of hip flexors
90 Degree Crunches-Hips, knees, and ankles at 90 degree angles
Windshield WipersKnees at 90 degree angle, straight legs, holding ball

### Circuit Stations:

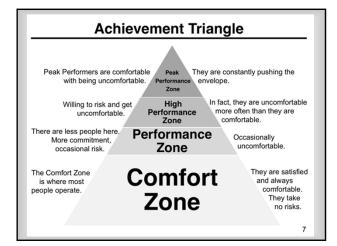
Kettle bell Squats Abs roll outs with Jack La Lane Wheel Squats with medicine ball

Pushups Burpies Low Hurdle Step Overs High Hurdle Hip Flexion Incline Pull-ups on Bar Leg Swings

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PLYOMETRIC DRILLS  CORE EXERCISES					
Hurdle Drills-	10-15 Exercises				
Stadiums-	1-Leg / 2-Leg Hops, High Knees Stride Up				
Running Form Exercises-	Lunges, Butt-Kicks, High knees, Straight Leg, Heel Walks, Toe Walks, Karaoke, A-B Skips				
Abs Work-	Sit-Ups, Crunches, Planks, Scissor, Prone Superman, Jane Fonda, Donkey Kicks				
Medicine Ball-	Abs exercises, Flexibility and Coordination drills				





THE BIOLOGICAL LAWS OF TRAINING

The structure and performance capability of an organ/organ system is determined by the following:

Its genetic constitution

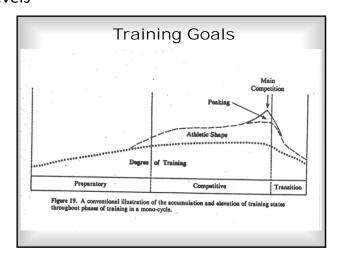
The quality and quantity of work carried out

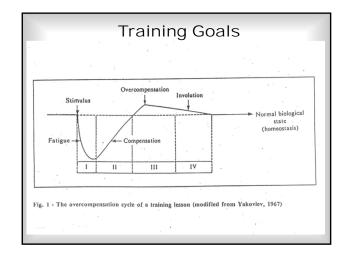
The greater the demand/stress placed on an organ within its physiological limits, the more intensely it adapts and more efficient it becomes.

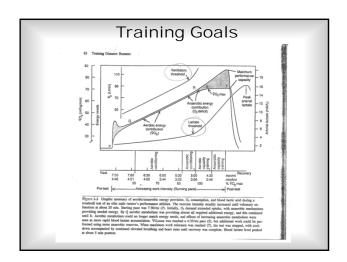
## PHYSIOLOGICAL TESTING Objectives • Provide Baseline Information • Provide Markers for Effectiveness of Training • Detect Areas of Strength and Weakness • Optimize Performance

## Training Goals Major Physiological Targets Improve body's ability to transport blood and oxygen Increase ability of specific muscle groups to effectively use available oxygen Shift blood lactate threshold to higher proportion of maximum speed/power Increase aerobic capacity Improve speed Improve running economy

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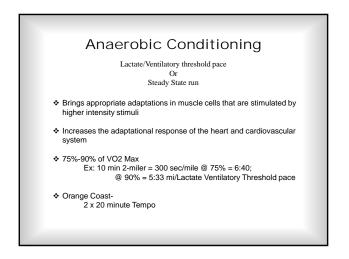








## Endurance/Aerobic Conditioning \* Bulk of training should be in the aerobic conditioning or base training phase \* Must be done at appropriate paces 65%-75% of VO2 Max (or using the athletes 2-mile PR) Ex: 10 min 2-miler = 300 sec/mile @ 65% = 7:42, @ 75% = 6:40 mi/aerobic training pace \* Slower pace will bring little or no measurable aerobic improvement



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# Aerobic Capacity Challenges the maximum aerobic capabilities 90%-100% of VO2 Max Ex: 10 min 2-miler = 300 sec/mile @ 90% = 5:33; @ 100% = 5:00 mi/pace Adequate recovery and rest between intervals is essential Interval can not be to long or it will bring excessive fatigue

# Anaerobic Capacity Very Intense training 100%-130% of VO2 Max Or 95% or more of maximum pace Improve racing speed and strength

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
Anaerobic Capacity (30sec-2min)	Aerobic Conditioning (20min-60min)	Aerobic Capacity (2min-8min)	Aerobic Conditioning (20min-60min)	Anaerobic Conditioning (8min-20min)	Aerobic Conditioning (60min-1hr45)	
400m Mile Repeats Recovery Run		Recovery Run	Tempo Run  Race	Long Run		

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDA
Hill Repeats					Long Run	
Hill Repeats		Tempo Run				
Hill Repeats						
Hill Repeats		Tempo Run				
Lappers		2-Mi Repeats				
Lappers		2-Mi Repeats				
Lappers		2-Mi Repeats				
Lappers		Mi Repeats				
Lappers		Mi Repeats				
Lappers		Mi Repeats				
400m Reps		Mi Repeats			Conference	
400m Reps		Mi Repeats			So. Cal.	
400m Reps			3K Time-Trial			
	Mile T-T				STATE MEET	

Training Monocycle							
MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	
Lappers 16x700m	Mountain Run 12 mi	Recovery Run 10 mi	Mile Repeats 6x1mi	Recovery Run 10 mi	Tempo Run 10 mi	Long Run 18 mi	
Lappers 16x700m			Mile Repeats 6x1mi		RACE		
Lappers 16x700m			Mile Repeats 6x1mi				
Lappers 16x700m			Mile Repeats 6x1mi				
Lappers 16x700m			Mile Repeats 6x1mi				
Lappers 16x700m			Mile Repeats 6x1mi				
Lappers			Mile Repeats 6x1mi				
Lappers			2mi T-T 3x1mi				
Lappers			2mi T-T 2x1mi		Conference		
Lappers			2mi T-T 1x1mi				
Mi Time-Trial					Nationals		

REFE	RENCE POINT TRAINING	BASE - MILE TIME	
LEVEL 1 4:00 - 4:15	851 - 4.42 - 5.00 851 - 4.32 - 4.50 951 - 4.24 - 4.50 971 - 4.24 - 4.60 941 - 4.15 - 4.31	NVO <sub>2</sub> T 2 MILE TIMES 9.24 - 10.00 9.02 - 9.40 8.48 - 9.20 8.30 - 9.02	
LEVEL 11 4.15 - 4.30	BEFEAT HILE TIMES 851 - 5.00 - 5.17 881 - 4.50 - 5.07 911 - 4.40 - 5.00 941 - 4.31 - 4.47	NVO_T - 2 NILE TIMES 10.00 - 10.34 9.40 - 10.16 9.20 - 10.00 9.02 - 9.34	
LEVEL 111 4.30 - 4.45	851 - 5.17 - 5.35 851 - 5.07 - 5.23 881 - 5.07 - 5.23 911 - 4.57 - 5.13 941 - 4.47 - 5.03	NVO_T 2 MILE TIMES 10.34 = 11.10 10.14 = 10.46 9.54 = 10.26 9.34 = 10.06	
LEVEL IV 4.45 - 5.00	851 - 5.35 - 5.53 881 - 5.24 - 5.41 911 - 5.13 - 5.30 941 - 5.00 - 5.16	NVO_T 2 WILE TIMES 11.10 = 11.46 10.48 = 11.22 10.26 = 11.00 10.00 = 10.32	
18VEL V 5.00 = 5.15	851 - 5.53 - 6.10 851 - 5.41 - 5.38 851 - 5.41 - 5.38 911 - 5.30 - 5.46 941 - 5.16 - 5.31	NYO,T 2 WILE TIMES 11.46 - 12.20 11.22 - 11.56 11.00 - 11.32 10.32 - 11.02	
18VEL VI 5.15 - 5.30	851 - 6.10 - 6.28 851 - 5.58 - 6.15 911 - 5.46 - 6.02 941 - 5.31 - 5.51	MYO,T - 2 MILE TIMES 12.20 - 12.56 11.56 - 12.30 11.32 - 12.04 11.02 - 11.42	
LEVEL VII 5.30 = 5.45	85% - 6.28 - 6.45 85% - 6.15 - 6.32 85% - 6.15 - 6.32 91% - 6.02 - 6.19 94% - 5.51 - 6.07	MYO,T 2 MILE TIMES 12.36 = 13.30 12.30 = 13.04 12.04 = 12.38 11.42 = 12.14	
LEVEL VIII 5.45 - 6.00	#SPEAT MILE TIMES #5%1 - 6.45 - 7.03 #8%% - 6.32 - 6.49 91% - 6.19 - 6.35 94% - 6.07 - 6.22	NYO <sub>2</sub> T - 2 NILE TIMES 13.30 - 14.06 13.04 - 13.38 12.38 - 13.10 12.14 - 12.44	
ALTITUDE ADJUSTMENT	4-6 Sec's/Mile 5, 2-3 Sec's/Mile 3,	000' = 8,000' 000' = 7,000' 500' = 5,000' lew 3,000'	